

Volume 126, 1998

No. 1	January	3-256	No. 7	July	1749-2028
No. 2	February	257-524	No. 8	August	2029-2304
No. 3	March	525-840	No. 9	September	2305-2520
No. 4	April	841-1104	No. 10	October	2521-2736
No. 5	May	1105-1372	No. 11	November	2737-3052
No. 6	June	1373-1748	No. 12	December	3053-3356

Corrigenda: 835, 1369

Section A. Index to Contributions by Author

Notes and Correspondence are indicated by asterisks.

- ALAPATY, KIRAN; MATHUR, ROHIT; ODMAN, TALAT; *Intercomparison of Spatial Interpolation Schemes for Use in Nested Grid Models, 243-249
- ALEXANDER, G. DAVID; WEINMAN, JAMES A.; SCHOLS, J. L.; The Use of Digital Warping of Microwave Integrated Water Vapor Imagery to Improve Forecasts of Marine Extratropical Cyclones, 1469-1496
- ALONSO, SERGIO; see ROMERO, ROMUALDO; 1859-1881
- ANDERSON, CHRISTOPHER J.; ARMITT, RAYMOND W.; Mesoscale Convective Complexes and Persistent Elongated Convective Systems over the United States during 1992 and 1993, 578-599
- ANDREWS, P. L.; BELL, R. S.; Optimizing the United Kingdom Meteorological Office Data Assimilation for ERS-1 Scatterometer Winds, 736-746
- ANGOVE, MICHAEL D.; see LANDER, MARK A.; 257-280
- ARMI, L.; see DORMAN, C. E.; 600-619
- ARMI, L.; see RALPH, F. M.; 2435-2465
- ARRITT, RAYMOND W.; see ANDERSON, CHRISTOPHER J.; 578-599
- ASUMA, YOSHIO; IWATA, SOSHI; KIKUCHI, KATSUHIRO; MOORE, G. W. KENT; KIMURA, RYUJI; TSUBOKI, KAZUHISA; Precipitation Features Observed by Doppler Radar at Tuktoyaktuk, Northwest Territories, Canada, during the Beaufort and Arctic Storms Experiment, 2384-2405
- ATKINS, NOLAN T.; WAKIMOTO, ROGER M.; ZIEGLER, CONRAD L.; Observations of the Finescale Structure of a Dryline during VORTEX 95, 525-550
- ATLAS, ROBERT; see JUSEM, JUAN CARLOS; 2166-2184
- AUNE, ROBERT M.; see RAYMOND, WILLIAM H.; 693-710
- AVILA, L. A.; see LAWRENCE, M. B.; 1124-1151
- AVILA, LIXION A.; see PASCH, RICHARD J.; 1106-1123
- AVILA, LIXION A.; see RAPPAPORT, EDWARD N.; 1152-1162
- BANE, J. M.; see DORMAN, C. E.; 600-619
- BANE, J. M.; see RALPH, F. M.; 2435-2465
- BAO, JIAN-WEN; see VUKIJEVIĆ, TOMISLAVA; 1695-1706
- BARROS, ANA P.; see KULIGOWSKI, ROBERT J.; 470-482
- BARROS, ANA P.; KULIGOWSKI, ROBERT J.; Orographic Effects during a Severe Wintertime Rainstorm in the Appalachian Mountains, 2648-2672
- BARTELS, DIANA L.; see MATEJKA, THOMAS; 92-117
- BAUMHEFNER, DAVID P.; see COLUCCI, STEPHEN J.; 773-784
- BAUMHEFNER, DAVID P.; see NUTTER, PAUL A.; 2482-2502
- BEAUCOURT, D.; see CASSOU, C.; 1035-1053
- BEDI, H. S.; see KRISHNAMURTI, T. N.; 1347-1363
- BEDI, H. S.; see MOHALLI, SAAD; 3153-3168
- BEHRINGER, DAVID W.; JI, MING; LEETMAA, ANTS; An Improved Coupled Model for ENSO Prediction and Implications for Ocean Initialization. Part I: The Ocean Data Assimilation System, 1013-1021
- BEHRINGER, DAVID W.; see JI, MING; 1022-1034
- BÉLAIR, STÉPHANE; LACARRÈRE, PIERRE; NOILHAN, JOËL; MASSON, VALÉRY; STEIN, JOËL; High-Resolution Simulation of Surface and Turbulent Fluxes during HAPEX-MOBILHY, 2234-2253
- BELJAARS, ANTON C. M.; see BETTS, ALAN K.; 186-198
- BELL, GERALD D.; see LANDSEA, CHRISTOPHER W.; 1174-1193
- BELL, R. S.; see ANDREWS, P. L.; 736-746
- BENDER, MORRIS A.; see KURIHARA, YOSHIO; 1306-1322
- BENOIT, ROBERT; see LACKMANN, GARY M.; 668-691
- BENOIT, ROBERT; see DESJARDINS, SERGE; 2793-2808
- BERNARDET, LIGIA R.; COTTON, WILLIAM R.; Multiscale Evolution of a Derecho-Producing Mesoscale Convective System, 2991-3015
- BETTS, ALAN K.; VITERBO, PEDRO; BELJAARS, ANTON C. M.; Comparison of the Land-Surface Interaction in the ECMWF Reanalysis Model with the 1987 FIFE Data, 186-198
- BHASKARAN, B.; MURPHY, J. M.; JONES, R. G.; Intraseasonal Oscillation in the Indian Summer Monsoon Simulated by Global and Nested Regional Climate Models, 3124-3134
- BLACK, ROBERT X.; EVANS, KATHERINE J.; The Statistics and Horizontal Structure of Anomalous Weather Regimes in the Community Climate Model, 841-859
- BLANCHARD, DAVID O.; COTTON, WILLIAM R.; BROWN, JOHN M.; Mesoscale Circulation Growth under Conditions of Weak Inertial Instability, 118-140
- BLANCHARD, DAVID O.; see MARKOWSKI, PAUL M.; 2959-2971
- BLUESTEIN, HOWARD B.; see HUTCHINSON, TODD A.; 141-166
- BLUESTEIN, HOWARD B.; MACGORMAN, DONALD R.; Evolution of Cloud-to-Ground Lightning Characteristics and Storm Structure in the Spearman, Texas, Tornado Supercells of 31 May 1990, 1451-1467
- BOSART, LANCE F.; see SCHULTZ, DAVID M.; 5-27
- BOSART, LANCE F.; see ROEBBER, PAUL J.; 437-455
- BOSART, LANCE F.; BRACKEN, W. EDWARD; SEIMON, ANTON; A Study of Cyclone Mesoscale Structure with Emphasis on a Large-Amplitude Inertia-Gravity Wave, 1497-1527
- BOSART, LANCE F.; see SCHULTZ, DAVID M.; 1767-1791
- BOVILLE, BYRON A.; see WILLIAMSON, DAVID L.; 1001-1012
- BRACKEN, W. EDWARD; see SCHULTZ, DAVID M.; 5-27
- BRACKEN, W. EDWARD; see BOSART, LANCE F.; 1497-1527
- BROGMWICH, DAVID H.; see PARISH, THOMAS R.; 199-209
- BROWN, JOHN M.; see BLANCHARD, DAVID O.; 118-140
- BUZZA, R.; PALMER, T. N.; Impact of Ensemble Size on Ensemble Prediction, 2503-2518
- BUNKERS, MATTHEW J.; see KLIMOWSKI, BRIAN A.; 831-834
- BURGERS, GERRIT; VAN LEEUWEN, PETER JAN; EVENSEN, GEIR; Analysis Scheme in the Ensemble Kalman Filter, 1719-1724
- BUZZI, ANDREA; TARTAGLIONE, NAZARIO; MALGUZZI, PIERO; Numerical Simulations of the 1994 Piedmont Flood: Role of Orography and Moist Processes, 2369-2383
- CACCIA, J.-L.; CAMMAS, J.-P.; VHF-ST Radar Observations of an Upper-Level Front Using Vertical and Oblique-Beam C_n Measurements, 483-501
- CAI, HUAQING; see WAKIMOTO, ROGER M.; 372-392
- CAMMAS, J.-P.; see CACCIA, J.-L.; 483-501

- CARBONE, R. E.; TUTTLE, J. D.; COOPER, W. A.; GRUBIĆ, V.; LEE, W. C.: Trade Wind Rainfall near the Windward Coast of Hawaii, 2847–2863
- CARON, J. M.; O'BRIEN, J. J.: The Generation of Synthetic Sea Surface Temperature Data for the Equatorial Pacific Ocean, 2809–2821
- CARR, LESTER E., III; ELSEBERRY, RUSSELL L.: *Objective Diagnosis of Binary Tropical Cyclone Interactions for the Western North Pacific Basin, 1734–1740
- CASSOU, C.; NOYRET, P.; SEVAULT, E.; THUAL, O.; TERRAY, L.; BEAUCOURT, D.; IMBARD, M.: Distributed Ocean–Atmosphere Modeling and Sensitivity to the Coupling Flux Precision: The CATHODE Project, 1035–1053
- CAYA, ALAIN; LAPRISE, RENÉ; ZWACK, PETER: Consequences of Using the Splitting Method for Implementing Physical Forcings in a Semi-Implicit Semi-Lagrangian Model, 1707–1713
- CHANG, C.-P.; HOU, S. C.; KUO, H. C.; CHEN, G. T. J.: The Development of an Intense East Asian Summer Monsoon Disturbance with Strong Vertical Coupling, 2692–2712
- CHAPA, SRINIVASA RAO; RAO, VADLAMUDI BRAHMANANDA; PRASAD, GANNABATHULA SRI SETHA DURGA: Application of Wavelet Transform to Meteosat-Derived Cold Cloud Index Data over South America, 2466–2481
- CHEN, CHANG; TAO, WEI-KUO; LIN, PAY-LIAM; LAI, GEORGE S.; TSENG, S.-F.; WANG, TAI-CHI CHEN: The Intensification of the Low-Level Jet during the Development of Mesoscale Convective Systems on a Mei-Yu Front, 349–371
- CHEN, FEI; see YUCEL, ISMAIL; 1977–1991
- CHEN, G. T. J.; see CHANG, C.-P.; 2692–2712
- CHEN, SHOU-JUN; KUO, YING-HWA; WANG, WEI; TAO, ZU-YU; CUI, BO: A Modeling Case Study of Heavy Rainstorms along the Mei-Yu Front, 2330–2351
- CHEN, TSING-CHANG; WENG, SHU-PING; YAMAZAKI, NUBUO; KIEHNE, SUSAN: *Interannual Variation in the Tropical Cyclone Formation over the Western North Pacific, 1080–1090
- CHEN, TSING-CHANG; WENG, SHU-PING: *Interannual Variation of the Summer Synoptic-Scale Disturbance Activity in the Western Tropical Pacific, 1725–1733
- CHEN, YIBIN; see GUTOWSKI, WILLIAM J., JR.; 1419–1429
- CHEN, YI-LENG; see WANG, JIAN-JIAN; 409–423
- CHEN, YI-LENG; see LI, JUN; 959–971
- CHEN, YI-LENG; see FENG, JIUHUA; 2185–2199
- CLAPPIER, A.: A Correction Method for Use in Multidimensional Time-Splitting Advection Algorithms: Application to Two- and Three-Dimensional Transport, 232–242
- CLARKE, J. CHRISTOPHER: An Atmospheric Undular Bore along the Texas Coast, 1098–1100
- COCKE, S.: *Case Study of Erin Using the FSU Nested Regional Spectral Model, 1337–1346
- COCKE, STEVEN D.; see MOHALFI, SAAD; 3153–3168
- COHN, S. E.; see RIISHOIGAARD, L. P.; 2008–2016
- COHN, S. E.; see TUDLING, R.; 2274–2286
- COHN, STEPHEN E.; DA SILVA, ARLINDO; GUO, JING; SIENKIEWICZ, META; LAMICH, DAVID: Assessing the Effects of Data Selection with the DAO Physical-Space Statistical Analysis System, 2913–2926
- COLLE, BRIAN A.; MASS, CLIFFORD F.: Windstorms along the Western Side of the Washington Cascade Mountains. Part I: A High-Resolution Observational and Modeling Study of the 12 February 1995 Event, 28–52
- COLLE, BRIAN A.; MASS, CLIFFORD F.: Windstorms along the Western Side of the Washington Cascade Mountains. Part II: Characteristics of Past Events and Three-Dimensional Idealized Simulations, 53–71
- COLLE, BRIAN A.; see STEENBURGH, W. JAMES; 2673–2691
- COLUCCI, STEPHEN J.; see HAMILL, THOMAS M.; 711–724
- COLUCCI, STEPHEN J.; BAUMHEFNER, DAVID P.: Numerical Prediction of the Onset of Blocking: A Case Study with Forecast Ensembles, 773–784
- COOPER, W. A.; see CARBONE, R. E.; 2847–2863
- CORREA-TORRES, R. J.; see WILLIFORD, C. E.; 1332–1336
- CÔTÉ, JEAN; GRAVEL, SYLVIE; MÉTHOT, ANDRÉ; PATOINE, ALAIN; ROCH, MICHEL; STANFORTH, ANDREW: The Operational CMC–MRB Global Environmental Multiscale (GEM) Model. Part I: Design Considerations and Formulation, 1373–1395
- CÔTÉ, JEAN; DESMARAIS, JEAN-GUY; GRAVEL, SYLVIE; MÉTHOT, ANDRÉ; PATOINE, ALAIN; ROCH, MICHEL; STANFORTH, ANDREW: The Operational CMC–MRB Global Environmental Multiscale (GEM) Model. Part II: Results, 1397–1418
- COTTON, WILLIAM R.; see BLANCHARD, DAVID O.; 118–140
- COTTON, WILLIAM R.; see BERNARDET, LIGIA R.; 2991–3015
- CUETO, RAFAEL GARCIA; see DOUGLAS, MICHAEL W.; 2017–2025
- CUI, BO; see CHEN, SHOU-JUN; 2330–2351
- DALFES, H. NUZHET; see TAYANÇ, METE; 3036–3047
- DA SILVA, ARLINDO; see COHN, STEPHEN E.; 2913–2926
- DAVIDSON, NOEL E.; KURIHARA, KAZUO; KATO, TERUYUKI; MILLS, GRAHAM; PURI, KAMAL: Dynamics and Prediction of a Mesoscale Extreme Rain Event in the Baiu Front over Kyushu, Japan, 1608–1629
- DAVIES, H. C.; ROSSA, A. M.: PV Frontogenesis and Upper-Tropospheric Fronts, 1528–1539
- DÉQUÉ, MICHEL; see DOBLAS-REYES, FRANCISCO J.; 3326–3335
- DERBER, JOHN C.; WU, WAN-SHU: The Use of TOVS Cloud-Cleared Radiances in the NCEP SSI Analysis System, 2287–2299
- DESIARDINS, SERGE; BENOIT, ROBERT; SWAIL, VAL: The Influence of Mesoscale Features of the Sea Surface Temperature Distribution on Marine Boundary Layer Winds off the Scotian Shelf during the Superstorm of March 1993, 2793–2808
- DESMARAIS, JEAN-GUY; see CÔTÉ, JEAN; 1397–1418
- DICKEY, TOMMY; FRYE, DAN; MCNEIL, JOE; MANOV, DEREK; NELSON, NORM; SIGURDSON, DAVID; JANNASCH, HANS; SIEGEL, DAVID; MICHAELS, TONY; JOHNSON, ROD: Upper-Ocean Temperature Response to Hurricane Felix as Measured by the Bermuda Testbed Mooring, 1195–1201
- DOBLAS-REYES, FRANCISCO J.; DÉQUÉ, MICHEL: A Flexible Bandpass Filter Design Procedure Applied to Midlatitude Intraseasonal Variability, 3326–3335
- DORMAN, C.; see RALP, F. M.; 2435–2465
- DORMAN, C. E.; ARMI, L.; BANE, J. M.; ROGERS, D. P.: Sea Surface Mixed Layer during the 10–11 June 1994 California Coastally Trapped Event, 600–619
- DOSWELL, CHARLES A., III; see ROMERO, ROMUALDO; 1859–1881
- DOUGLAS, MICHAEL W.; VALDEZ-MANZANILLA, ARTURO; CUETO, RAFAEL GARCIA: *Diurnal Variation and Horizontal Extent of the Low-Level Jet over the Northern Gulf of California, 2017–2025
- DOWELL, DAVID C.; see MARKOWSKI, PAUL M.; 2942–2958
- ELSEBERRY, RUSSELL L.; see CARR, LESTER E., III; 1734–1740
- ESBENSEN, STEVEN K.; see VICKERS, DEAN; 620–633
- EVANS, KATHERINE J.; see BLACK, ROBERT X.; 841–859
- EVENSEN, GEIR; see BURGERS, GERRIT; 1719–1724
- FENG, JIUHUA; CHEN, YI-LENG: Evolution of Katabatic Flow on the Island of Hawaii on 10 August 1990, 2185–2199
- FOUILLOUX, ANNE; JAQUINTA, JEAN: Mesoscale Cirrus Cloud Modeling and Comparisons against Experimental Data Collected on 17 April 1994 during the EUCREX Campaign, 2422–2434
- FOVELL, ROBERT G.; TAN, PEI-HUA: The Temporal Behavior of Numerically Simulated Multicell-Type Storms. Part II: The Convective Cell Life Cycle and Cell Regeneration, 551–577
- FRANK, WILLIAM M.; see QIAN, LIYING; 456–469
- FRIETSCH, J. MICHAEL; see KAIN, JOHN S.; 2254–2273
- FRYE, DAN; see DICKEY, TOMMY; 1195–1201
- FUJI, TAFESHI: *Statistical Analysis of the Characteristics of Severe Typhoons Hitting the Japanese Main Islands, 1091–1097
- FUJIYOSHI, YASUSHI; YOSHIMOTO, NAOHIRO; TAKEDA, TAKAO: A Dual-Doppler Radar Study of Longitudinal-Mode Snowbands. Part I: A Three-Dimensional Kinematic Structure of Meso- γ -Scale Convective Cloud Systems within a Longitudinal-Mode Snowband, 72–91
- GALL, ROBERT; TUTTLE, JOHN; HILDEBRAND, PETER: Small-Scale Spiral Bands Observed in Hurricanes Andrew, Hugo, and Erin, 1749–1766

- GARREAU, RENÉ D.; WALLACE, JOHN M.; Summertime Incursions of Midlatitude Air into Subtropical and Tropical South America, 2713–2733
- GEERTS, BART; see KNUPP, KEVIN R.; 1812–1836
- GEERTS, BART; see KNUPP, KEVIN R.; 1837–1858
- GELLER, MARVIN; see RUKHOVETS, LEONID; 2927–2941
- GHAN, S. J.; see LEUNG, L. R.; 3271–3291
- GILMORE, MATTHEW S.; WICKER, LOUIS J.; The Influence of Midtropospheric Dryness on Supercell Morphology and Evolution, 943–958
- GINIS, I.; RICHARDSON, R. A.; ROTHSTEIN, L. M.; Design of a Multiply Nested Primitive Equation Ocean Model, 1054–1079
- GNANADESIKAN, ANAND; see PACANOWSKI, RONALD C.; 3248–3270
- GOERSS, JAMES S.; VELDEN, CHRISTOPHER S.; HAWKINS, JEFFREY D.; The Impact of Multispectral GOES-8 Wind Information on Atlantic Tropical Cyclone Track Forecasts in 1995. Part II: NOGAPS Forecasts, 1219–1227
- GOLDENBERG, STANLEY B.; see LANDSEA, CHRISTOPHER W.; 1174–1193
- GONG, JIANJIAN; WAHBA, GRACE; JOHNSON, DONALD R.; TRIBBIA, JOSEPH; Adaptive Tuning of Numerical Weather Prediction Models: Simultaneous Estimation of Weighting, Smoothing, and Physical Parameters, 210–231
- GOODMAN, STEVEN J.; see KNUPP, KEVIN R.; 1812–1836
- GOTO-AZUMA, KUMIKO; see OZAWA, HISASHI; 1741–1745
- GRAVEL, SYLVIE; see CÔTÉ, JEAN; 1373–1395
- GRAVEL, SYLVIE; see CÔTÉ, JEAN; 1397–1418
- GRAY, WILLIAM M.; see LANDSEA, CHRISTOPHER W.; 1174–1193
- GREEN, PHAEDRA M.; see SMITH, SHAWN R.; 3102–3116
- GRUBIŃI, V.; see CARBONE, R. E.; 2847–2863
- GUAN, SHUCAI; JACKSON, PETER L.; REASON, CHRIS J. C.; Numerical Modeling of a Coastal Trapped Disturbance. Part I: Comparison with Observations, 972–990
- GUARD, CHARLES P.; see LANDER, MARK A.; 1163–1173
- GUCH, INGRID C.; see JONES, ANDREW S.; 634–645
- GUCH, INGRID C.; see JONES, ANDREW S.; 646–667
- GUEDES, R. L.; see MACHADO, L. A. T.; 1630–1654
- GUO, JING; see COHN, STEPHEN E.; 2913–2926
- GUSTAFSSON, NILS; NYBERG, LEIF; OMSTEDT, ANDERS; Coupling of a High-Resolution Atmospheric Model and an Ocean Model for the Baltic Sea, 2822–2846
- GUTOWSKI, WILLIAM J., JR.; ÖTLES, ZEKAI; CHEN, YIBIN; Effect of Ocean Surface Heterogeneity on Climate Simulation, 1419–1429
- GYAKUM, JOHN; see HUO, ZONGHUI; 424–436
- GYAKUM, JOHN R.; see LACKMANN, GARY M.; 668–691
- HAMILL, THOMAS M.; COLUCCI, STEPHEN J.; Evaluation of Eta-RSM Ensemble Probabilistic Precipitation Forecasts, 711–724
- HAMILTON, DAVID; see KOCH, STEVEN E.; 2031–2060
- HAMILTON, DAVID W.; LIN, YUH-LANG; WEGLARZ, RONALD P.; KAPLAN, MICHAEL L.; Jetlet Formation from Diabatic Forcing with Applications to the 1994 Palm Sunday Tornado Outbreak, 2061–2089
- HAMILTON, DAVID W.; see KAPLAN, MICHAEL L.; 2133–2165
- HAN, WEI; see KRISHNAMURTI, T. N.; 1347–1363
- HARWOOD, ROBERT S.; see MOTE, PHILIP W.; 1655–1680
- HAWKINS, JEFFREY D.; see GOERSS, JAMES S.; 1219–1227
- HEMING, J. T.; RADFORD, A. M.; The Performance of the United Kingdom Meteorological Office Global Model in Predicting the Tracks of Atlantic Tropical Cyclones in 1995, 1323–1331
- HIGGINS, R. WAYNE; see MO, KINGSTIE C.; 1581–1596
- HILDEBRAND, PETER; see GALL, ROBERT; 1749–1766
- HILDEBRAND, PETER H.; Shear-Parallel Moist Convection over the Tropical Ocean: A Case Study from 18 February 1993 TOGA COARE, 1952–1976
- HJELMFELT, MARK R.; see KLIMOWSKI, BRIAN A.; 831–834
- HOBBS, PETER V.; see LOCATELLI, JOHN D.; 860–875
- HODGES, K. I.; Feature-Point Detection Using Distance Transforms: Application to Tracking Tropical Convective Complexes, 785–795
- HOINKA, KLAUS P.; Statistics of the Global Tropopause Pressure, 3303–3325
- HONG, SONG-YOU; JUANG, HANN-MING HENRY; Orography Blending in the Lateral Boundary of a Regional Model, 1714–1718
- HONG, SONG-YOU; PAN, HUA-LU; Convective Trigger Function for a Mass-Flux Cumulus Parameterization Scheme, 2599–2620
- HONG, SONG-YOU; JUANG, HANN-MING HENRY; ZHAO, QINGYUN; Implementation of Prognostic Cloud Scheme for a Regional Spectral Model, 2621–2639
- HOU, S. C.; see CHANG, C. -P.; 2692–2712
- HOUSTON, SAMUEL H.; see POWELL, MARK D.; 1259–1273
- HOUTEKAMER, P. L.; MITCHELL, HERSHEL L.; Data Assimilation Using an Ensemble Kalman Filter Technique, 796–811
- HUO, ZONGHUI; ZHANG, DA-LIN; GYAKUM, JOHN; An Application of Potential Vorticity Inversion to Improving the Numerical Prediction of the March 1993 Superstorm, 424–436
- HUTCHINSON, TODD A.; BLUESTEIN, HOWARD B.; Prefrontal Wind-Shift Lines in the Plains of the United States, 141–166
- IAQUINTA, JEAN; see FOUILLOUX, ANNE; 2422–2434
- IGAU, RICHARD C.; NIELSEN-GAMMON, JOHN W.; Low-Level Jet Development during a Numerically Simulated Return Flow Event, 2972–2990
- IMBARD, M.; see CASSOU, C.; 1035–1053
- ISKENDERIAN, HAIG; SALSTEIN, DAVID A.; Regional Sources of Mountain Torque Variability and High-Frequency Fluctuations in Atmospheric Angular Momentum, 1681–1694
- IWANAMI, KOYURU; see OZAWA, HISASHI; 1741–1745
- IWATA, SOSHI; see ASUMA, YOSHIO; 2384–2405
- JACKSON, PETER L.; see GUAN, SHUCAI; 972–990
- JANNASCH, HANS; see DICKEY, TOMMY; 1195–1201
- JHA, BHASKAR; see KRISHNAMURTI, T. N.; 1347–1363
- JI, MING; see BEHRINGER, DAVID W.; 1013–1021
- JI, MING; BEHRINGER, DAVID W.; LEETMAA, ANTS; An Improved Coupled Model for ENSO Prediction and Implications for Ocean Initialization. Part II: The Coupled Model, 1022–1034
- JING, JIANN-GWO; see PASCH, RICHARD J.; 1106–1123
- JOHNSON, D.; see NEIMAN, PAUL J.; 2521–2554
- JOHNSON, DONALD R.; see GONG, JIANJIAN; 210–231
- JOHNSON, L. RONALD; see KLIMOWSKI, BRIAN A.; 831–834
- JOHNSON, RICHARD H.; see KNEIVEL, JASON C.; 1907–1930
- JOHNSON, ROD; see DICKEY, TOMMY; 1195–1201
- JONES, ANDREW S.; GUCH, INGRID C.; VONDER HAAR, THOMAS H.; Data Assimilation of Satellite-Derived Heating Rates as Proxy Surface Wetness Data into a Regional Atmospheric Mesoscale Model. Part I: Methodology, 634–645
- JONES, ANDREW S.; GUCH, INGRID C.; VONDER HAAR, THOMAS H.; Data Assimilation of Satellite-Derived Heating Rates as Proxy Surface Wetness Data into a Regional Atmospheric Mesoscale Model. Part II: A Case Study, 646–667
- JONES, R. G.; see BHASKARAN, B.; 3124–3134
- JORGENSEN, DAVID P.; see LEWIS, SHARON A.; 3189–3212
- JUANG, HANN-MING HENRY; see HONG, SONG-YOU; 1714–1718
- JUANG, HANN-MING HENRY; see HONG, SONG-YOU; 2621–2639
- JUSEM, JUAN CARLOS; ATLAS, ROBERT; Diagnostic Evaluation of Vertical Motion Forcing Mechanisms by Using Q-Vector Partitioning, 2166–2184
- KAIN, JOHN S.; FRITSCH, J. MICHAEL; Multiscale Convective Overturning in Mesoscale Convective Systems: Reconciling Observations, Simulations, and Theory, 2254–2273
- KAPLAN, MICHAEL L.; see HAMILTON, DAVID W.; 2061–2089
- KAPLAN, MICHAEL L.; LIN, YUH-LANG; HAMILTON, DAVID W.; ROZUMALSKI, ROBERT A.; The Numerical Simulation of an Unbalanced Jetlet and Its Role in the Palm Sunday 1994 Tornado Outbreak in Alabama and Georgia, 2133–2165
- KARACA, MEHMET; see TAYANÇ, METE; 3036–3047
- KARYAMPUDI, V. MOHAN; see RODGERS, EDWARD B.; 1229–1247

- KARYAMPUDI, V. MOHAN; LAI, GEORGE S.; MANOBIANCO, JOHN; Impact of Initial Conditions, Rainfall Assimilation, and Cumulus Parameterization on Simulations of Hurricane Florence (1988), 3077–3101
- KATO, TERUYUKI; see DAVIDSON, NOEL E.; 1608–1629
- KEYSER, DANIEL; see SCHULTZ, DAVID M.; 1757–1791
- KIEHNE, SUSAN; see CHEN, TSING-CHANG; 1080–1090
- KIKUCHI, KATSUHIRO; see ASUMA, YOSHIO; 2384–2405
- KIMURA, RYUJI; see ASUMA, YOSHIO; 2384–2405
- KLIMOWSKI, BRIAN A.; HJELMFELT, MARK R.; BUNKERS, MATTHEW J.; SEDLACEK, DON; JOHNSON, L. RONALD; Hailstorm Damage Observed from the GOES-8 Satellite: The 5–6 July 1996 Butte–Meade Storm, 831–834
- KNIEVEL, JASON C.; JOHNSON, RICHARD H.; Pressure Transients within MCS Mesohighs and Wake Lows, 1907–1930
- KNUPP, KEVIN R.; GEERTS, BART; GOODMAN, STEVEN J.; Analysis of a Small, Vigorous Mesoscale Convective System in a Low-Shear Environment. Part I: Formation, Radar Echo Structure, and Lightning Behavior, 1812–1836
- KNUPP, KEVIN R.; GEERTS, BART; TUTTLE, JOHN D.; Analysis of a Small, Vigorous Mesoscale Convective System in a Low-Shear Environment. Part II: Evolution of the Stratiform Precipitation and Mesoscale Flows, 1837–1858
- KOCH, STEVEN E.; HAMILTON, DAVID; KRAMER, DEVIN; LANGMAID, ADAM; Mesoscale Dynamics in the Palm Sunday Tornado Outbreak, 2031–2060
- KOERNER, ROY M.; see OZAWA, HISASHI; 1741–1745
- KRAMER, DEVIN; see KOCH, STEVEN E.; 2031–2060
- KRISHNAMURTI, T. N.; see WILLIFORD, C. E.; 1332–1336
- KRISHNAMURTI, T. N.; HAN, WEI; JHA, BHASKAR; BEDI, H. S.; Numerical Prediction of Hurricane Opal, 1347–1363
- KRISHNAMURTI, T. N.; see MOHALLI, SAAD; 3153–3168
- KULIE, MARK S.; LIN, YUH-LANG; The Structure and Evolution of a Numerically Simulated High-Precipitation Supercell Thunderstorm, 2090–2116
- KULIGOWSKI, ROBERT J.; BARROS, ANA P.; Experiments in Short-Term Precipitation Forecasting Using Artificial Neural Networks, 470–482
- KULIGOWSKI, ROBERT J.; see BARROS, ANA P.; 2648–2672
- KUO, H. C.; see CHANG, C. -P.; 2692–2712
- KUO, HUNG-CHI; WILLIAMS, R. T.; Scale-Dependent Accuracy in Regional Spectral Methods, 2640–2647
- KUO, Y.-H.; see ZOU, X.; 2737–2763
- KUO, YING-HWA; see CHEN, SHOU-JUN; 2330–2351
- KURIHARA, KAZUO; see DAVIDSON, NOEL E.; 1608–1629
- KURIHARA, YOSHIO; TULEYA, ROBERT E.; BENDER, MORRIS A.; The GFDL Hurricane Prediction System and Its Performance in the 1995 Hurricane Season, 1306–1322
- LACARRÈRE, PIERRE; see BÉLAIR, STÉPHANE; 2234–2253
- LACKMANN, GARY M.; GYAKUM, JOHN R.; BENOIT, ROBERT; Moisture Transport Diagnosis of a Wintertime Precipitation Event in the Mackenzie River Basin, 668–691
- LAI, GEORGE S.; see CHEN, CHANG; 349–371
- LAI, GEORGE S.; see KARYAMPUDI, V. MOHAN; 3077–3101
- LAMICH, DAVID; see COHN, STEPHEN E.; 2913–2926
- LANDER, MARK A.; ANGOVE, MICHAEL D.; Eastern Hemisphere Tropical Cyclones of 1995, 257–280
- LANDER, MARK A.; GUARD, CHARLES P.; A Look at Global Tropical Cyclone Activity during 1995: Contrasting High Atlantic Activity with Low Activity in Other Basins, 1163–1173
- LANDSEA, CHRISTOPHER W.; BELL, GERALD D.; GRAY, WILLIAM M.; GOLDENBERG, STANLEY B.; The Extremely Active 1995 Atlantic Hurricane Season: Environmental Conditions and Verification of Seasonal Forecasts, 1174–1193
- LANGMAID, ADAM; see KOCH, STEVEN E.; 2031–2060
- LANGMAID, ADAM H.; RIORIAN, ALLEN J.; Surface Mesoscale Processes during the 1994 Palm Sunday Tornado Outbreak, 2117–2132
- LAPRISE, RENÉ; see CAYA, ALAIN; 1707–1713
- LAWRENCE, M. B.; MAYFIELD, B. M.; AVILA, L. A.; PASCH, R. J.; RAPPAPORT, E. N.; Atlantic Hurricane Season of 1995, 1124–1151
- LAWRENCE, MILES B.; see RAPPAPORT, EDWARD N.; 1152–1162
- LEBEL, THIERRY; see TAYLOR, CHRISTOPHER M.; 1597–1607
- LEE, TAE-YOUNG; PARK, YOUNG-YOUNG; LIN, YUH-LANG; A Numerical Modeling Study of Mesoscale Cyclogenesis to the East of the Korean Peninsula, 2305–2329
- LEE, W. C.; see CARBONE, R. E.; 2847–2863
- LEETMAA, ANTS; see BEHRINGER, DAVID W.; 1013–1021
- LEETMAA, ANTS; see JI, MING; 1022–1034
- LEMARSHALL, J. F.; see LESLIE, L. M.; 1248–1257
- LEMEUR, D.; see TOMASSINI, M.; 1274–1286
- LEMONE, MARGARET A.; see TRIER, STANLEY B.; 2580–2598
- LEMONE, MARGARET A.; see LEWIS, SHARON A.; 3189–3212
- LEONARDI, ALAN P.; see SMITH, SHAWN R.; 3102–3116
- LE ROUX, DANIEL Y.; STANFORTH, ANDREW; LIN, CHARLES A.; Finite Elements for Shallow-Water Equation Ocean Models, 1931–1951
- LESLIE, L. M.; LEMARSHALL, J. F.; MORISON, R. P.; SPINOSO, C.; PURSER, R. J.; PESCOD, N.; SEECAMP, R.; Improved Hurricane Track Forecasting from the Continuous Assimilation of High Quality Satellite Wind Data, 1248–1257
- LE TREUT, H.; see SELUCHI, M.; 895–912
- LEUNG, L. R.; GHAN, S. J.; Parameterizing Subgrid Orographic Precipitation and Surface Cover in Climate Models, 3271–3291
- LEWIS, SHARON A.; LEMONE, MARGARET A.; JORGENSEN, DAVID P.; Evolution and Dynamics of a Late-Stage Squall Line That Occurred on 20 February 1993 during TOGA COARE, 3189–3212
- LI, JUN; CHEN, YI-LING; Barrier Jets during TAMEX, 959–971
- LI, Y.; see RIISHØGAARD, L. P.; 2008–2016
- LIN, CHARLES A.; see LE ROUX, DANIEL Y.; 1931–1951
- LIN, PAY-LIAM; see CHEN, CHANG; 349–371
- LIN, YUH-LANG; see HAMILTON, DAVID W.; 2061–2089
- LIN, YUH-LANG; see KULIE, MARK S.; 2090–2116
- LIN, YUH-LANG; see KAPLAN, MICHAEL L.; 2133–2165
- LIN, YUH-LANG; see LEE, TAE-YOUNG; 2305–2329
- LIU, CHINGHWANG; see WAKIMOTO, ROGER M.; 372–392
- LIU, CHINGHWANG; see WAKIMOTO, ROGER M.; 393–408
- LOCATELLI, JOHN D.; STOELINGA, MARK T.; HOBBS, PETER V.; Structure and Evolution of Winter Cyclones in the Central United States and Their Effects on the Distribution of Precipitation. Part V: Thermodynamic and Dual-Doppler Radar Analysis of a Squall Line Associated with a Cold Front Aloft, 860–875
- LORD, STEPHEN J.; see SURGI, NAOMI; 1287–1305
- LOUGHE, ANDREW F.; see WHITAKER, JEFFREY S.; 3292–3302
- LOW-NAM, S.; see ZOU, X.; 2737–2763
- LUPO, ANTHONY R.; SMITH, PHILLIP J.; The Interactions between a Midlatitude Blocking Anticyclone and Synoptic-Scale Cyclones That Occurred during the Summer Season, 502–515
- LYNN, BARRY H.; TAO, WEI-KUO; WETZEL, PETER J.; A Study of Landscape-Generated Deep Moist Convection, 928–942
- LYONS, WALTER A.; ULIASZ, MAREK; NELSON, THOMAS E.; Large Peak Current Cloud-to-Ground Lightning Flashes during the Summer Months in the Contiguous United States, 2217–2233
- MACGORMAN, DONALD R.; see BLUESTEIN, HOWARD B.; 1451–1467
- MACHADO, L. A. T.; ROSSOW, W. B.; GUEDES, R. L.; WALKER, A. W.; Life Cycle Variations of Mesoscale Convective Systems over the Americas, 1630–1654
- MAGSIG, MICHAEL A.; SNOW, JOHN T.; Long-Distance Debris Transport by Tornadoic Thunderstorms. Part I: The 7 May 1995 Supercell Thunderstorm, 1430–1449
- MALGUZZI, PIERO; see BUZZI, ANDREA; 2369–2383
- MANOBIANCO, JOHN; see KARYAMPUDI, V. MOHAN; 3077–3101
- MANOV, DEREK; see DICKEY, TOMMY; 1195–1201
- MARKET, PATRICK S.; MOORE, JAMES T.; Mesoscale Evolution of a Continental Occluded Cyclone, 1793–1811

- MARKOWSKI, PAUL M.; RASMUSSEN, ERIK N.; STRAKA, JERRY M.; DOWELL, DAVID C.: Observations of Low-Level Baroclinity Generated by Anvil Shadows, 2942–2958
- MARKOWSKI, PAUL M.; STRAKA, JERRY M.; RASMUSSEN, ERIK N.; BLANCHARD, DAVID O.: Variability of Storm-Relative Helicity during VORTEX, 2959–2971
- MARTIN, JONATHAN E.: The Structure and Evolution of a Continental Winter Cyclone. Part I: Frontal Structure and the Occlusion Process, 303–328
- MARTIN, JONATHAN E.: The Structure and Evolution of a Continental Winter Cyclone. Part II: Frontal Forcing of an Extreme Snow Event, 329–348
- MARTIN, JONATHAN E.: "On the Deformation Term in the Quasigeostrophic Omega Equation, 2000–2007
- MASS, CLIFFORD F.; see COLLE, BRIAN A.; 28–52
- MASS, CLIFFORD F.; see COLLE, BRIAN A.; 53–71
- MASSON, VALÉRY; see BÉLAIR, STÉPHANE; 2234–2253
- MATEJKA, THOMAS; BARTELS, DIANA L.: The Accuracy of Vertical Air Velocities from Doppler Radar Data, 92–117
- MATHUR, ROHIT; see ALAPATY, KIRAN; 243–249
- MAYFIELD, B. M.; see LAWRENCE, M. B.; 1124–1151
- MAYFIELD, MAX; see RAPPAFORT, EDWARD N.; 1152–1162
- MAYFIELD, MAX; RAPPAFORT, EDWARD N.: Eastern North Pacific Hurricane Season of 1996, 3068–3076
- MCNEIL, JOE; see DICKEY, TOMMY; 1195–1201
- MCWILLIAMS, JAMES C.; see SHCHEPETKIN, ALEXANDER F.; 1541–1580
- MECHIKALSKI, JOHN R.; TRIPOLI, GREGORY J.: Inertial Available Kinetic Energy and the Dynamics of Tropical Plume Formation, 2200–2216
- MÉNARD, R.; see RIISHOIGAARD, L. P.; 2008–2016
- MÉTHOT, ANDRÉ; see CÔTÉ, JEAN; 1373–1395
- MÉTHOT, ANDRÉ; see CÔTÉ, JEAN; 1397–1418
- MICHAELS, TONY; see DICKEY, TOMMY; 1195–1201
- MILLER, DOUGLAS K.; PETTY, GRANT W.: Moisture Patterns in Deepening Maritime Extratropical Cyclones. Part I: Correlation between Precipitation and Intensification, 2352–2368
- MILLS, GRAHAM; see DAVIDSON, NOEL E.; 1608–1629
- MITCHELL, HERSCHEL L.; see HOUTEKAMER, P. L.; 796–811
- MO, KINGSTIE C.; HIGGINS, R. WAYNE: The Pacific–South American Modes and Tropical Convection during the Southern Hemisphere Winter, 1581–1596
- MO, KINGSTIE C.; see NOGUÉS-PAEGLE, JULIA; 3135–3152
- MOHALFI, SAAD; BEDI, H. S.; KRISHNAMURTI, T. N.; COCKE, STEVEN D.: Impact of Shortwave Radiative Effects of Dust Aerosols on the Summer Season Heat Low over Saudi Arabia, 3153–3168
- MOORE, G. W. KENT; see ASUMA, YOSHIO; 2384–2405
- MOORE, JAMES T.; see MARKET, PATRICK S.; 1793–1811
- MORGAN, MICHAEL C.; NIELSEN-GAMMON, JOHN W.: Using Tropopause Maps to Diagnose Midlatitude Weather Systems, 2555–2579
- MORISON, R. P.; see LESLIE, L. M.; 1248–1257
- MOTE, PHILIP W.; STOTT, PETER A.; HARWOOD, ROBERT S.: Stratospheric Flow during Two Recent Winters Simulated by a Mechanistic Model, 1655–1680
- MULLEN, STEVEN L.; see NUTTER, PAUL A.; 2482–2502
- MULLEN, STEVEN L.; SCHMITZ, JEFFREY T.; RENNO, NILTON O.: Intraseasonal Variability of the Summer Monsoon over Southeast Arizona, 3016–3035
- MURPHY, J. M.; see BHASKARAN, B.; 3124–3134
- NEFF, W. D.; see RALPH, F. M.; 2435–2465
- NEIMAN, P. J.; see RALPH, F. M.; 2435–2465
- NEIMAN, PAUL J.; RALPH, F. MARTIN; SHAPIRO, M. A.; SMULL, B. F.; JOHNSON, D.: An Observational Study of Fronts and Frontal Mergers over the Continental United States, 2521–2554
- NELSON, NORM; see DICKEY, TOMMY; 1195–1201
- NELSON, NORMAN B.: "Spatial and Temporal Extent of Sea Surface Temperature Modifications by Hurricanes in the Sargasso Sea during the 1995 Season, 1364–1368
- NELSON, THOMAS E.; see LYONS, WALTER A.; 2217–2233
- NEWELL, REGINALD E.; see ZHU, YONG; 725–735
- NIELSEN-GAMMON, JOHN W.; see MORGAN, MICHAEL C.; 2555–2579
- NIELSEN-GAMMON, JOHN W.; see IGARU, RICHARD C.; 2972–2990
- NOGUÉS-PAEGLE, JULIA; MO, KINGSTIE C.; PAEGLE, JAN: Predictability of the NCEP–NCAR Reanalysis Model during Austral Summer, 3135–3152
- NOILHAN, JOËL; see BÉLAIR, STÉPHANE; 2234–2253
- NOONAN, JULIE A.; see SMITH, ROGER K.; 167–185
- NOWLIN, WORTH D., JR.; see WANG, WENSU; 2864–2883
- NOYRET, P.; see CASSOU, C.; 1035–1053
- NUSS, W.; see RALPH, F. M.; 2435–2465
- NUTTER, PAUL A.; MULLEN, STEVEN L.; BAUMHEFNER, DAVID P.: The Impact of Initial Condition Uncertainty on Numerical Simulations of Blocking, 2482–2502
- NYBERG, LEIF; see GUSTAFSSON, NILS; 2822–2846
- O'BRIEN, J. J.; see CARON, J. M.; 2809–2821
- O'BRIEN, JAMES J.; see SMITH, SHAWN R.; 3102–3116
- ODMAN, TALAT; see ALAPATY, KIRAN; 243–249
- OLANDER, TIMOTHY L.; see VELDEN, CHRISTOPHER S.; 1202–1218
- OLSON, JERRY G.; see WILLIAMSON, DAVID L.; 991–1000
- OLSON, JERRY G.; see WILLIAMSON, DAVID L.; 1001–1012
- OLSON, WILLIAM S.; see RODGERS, EDWARD B.; 1229–1247
- OMSTEDT, ANDERS; see GUSTAFSSON, NILS; 2822–2846
- ÖTLER, ZEKAI; see GUTOWSKI, WILLIAM J., JR.; 1419–1429
- OZAWA, HISASHI; GOTO-AZUMA, KUMIKO; IWANAMI, KOYURU; KOERNER, ROY M.: Cirriform Rotor Cloud Observed on a Canadian Arctic Ice Cap, 1741–1745
- PACANOWSKI, RONALD C.; GNANADESIKAN, ANAND: Transient Response in a Z-Level Ocean Model That Resolves Topography with Partial Cells, 3248–3270
- PAEGLE, JAN; see NOGUÉS-PAEGLE, JULIA; 3135–3152
- PALMER, T. N.; see BUIZZA, R.; 2503–2518
- PAN, HUA-LU; see SURGI, NAOMI; 1287–1305
- PAN, HUA-LU; see HONG, SONG-YOU; 2599–2620
- PARISH, THOMAS R.; BROMWICH, DAVID H.: A Case Study of Antarctic Katabatic Wind Interaction with Large-Scale Forcing, 199–209
- PARK, YOUNG-YOUNG; see LEE, TAE-YOUNG; 2305–2329
- PARKER, DOUGLAS J.: "The Dependence of Cold-Pool Depth on Source Conditions, 516–520
- PASCH, R. J.; see LAWRENCE, M. B.; 1124–1151
- PASCH, RICHARD J.; AVILA, LIXION A.; JING, JIANN-GWO: Atlantic Tropical Systems of 1994 and 1995: A Comparison of a Quiet Season to a Near-Record-Breaking One, 1106–1123
- PASCH, RICHARD J.; see RAPPAFORT, EDWARD N.; 1152–1162
- PATOINE, ALAIN; see CÔTÉ, JEAN; 1373–1395
- PATOINE, ALAIN; see CÔTÉ, JEAN; 1397–1418
- PERSSON, P. O. G.; see RALPH, F. M.; 2435–2465
- PESCOD, N.; see LESLIE, L. M.; 1248–1257
- PETTY, GRANT W.; see MILLER, DOUGLAS K.; 2352–2368
- PIERCE, HAROLD F.; see RODGERS, EDWARD B.; 1229–1247
- PIETRZAK, JULIE: The Use of TVD Limiters for Forward-in-Time Upstream-Biased Advection Schemes in Ocean Modeling, 812–830
- POWELL, MARK D.; HOUSTON, SAMUEL H.: Surface Wind Fields of 1995 Hurricanes Erin, Opal, Luis, Marilyn, and Roxanne at Landfall, 1259–1273
- PRASAD, GANNABATHULA SRI SETHA DURGA; see CHAPA, SRINIVASA RAO; 2466–2481
- PURI, KAMAL; see DAVIDSON, NOEL E.; 1608–1629
- PURSER, R. J.; see LESLIE, L. M.; 1248–1257
- QIAN, JIAN-HUA; SEMAZZI, FREDRICK H. M.; SCROGGS, JEFFREY S.: A Global Nonhydrostatic Semi-Lagrangian Atmospheric Model with Orography, 747–771
- QIAN, LIYING; YOUNG, GEORGE S.; FRANK, WILLIAM M.: A Convective Wake Parameterization Scheme for Use in General Circulation Models, 456–469
- RADFORD, A. M.; see HEMING, J. T.; 1323–1331

- RAISANEN, PETRI; *Effective Longwave Cloud Fraction and Maximum-Random Overlap of Clouds: A Problem and a Solution, 3336–3340
- RALPH, F. M.; ARMI, L.; BANE, J. M.; DORMAN, C.; NEFF, W. D.; NEIMAN, P. J.; NUSS, W.; PERSSON, P. O. G.; Observations and Analysis of the 10–11 June 1994 Coastally Trapped Disturbance, 2435–2465
- RALPH, F. MARTIN; see NEIMAN, PAUL J.; 2521–2554
- RAMIS, CLEMENTE; see ROMERO, ROMUALDO; 1859–1881
- RAO, VADLAMUDI BRAHMANANDA; see CHAPA, SRINIVASA RAO; 2466–2481
- RAPPAPORT, E. N.; see LAWRENCE, M. B.; 1124–1151
- RAPPAPORT, EDWARD N.; AVILA, LIXION A.; LAWRENCE, MILES B.; MAYFIELD, MAX; PASCH, RICHARD J.; Eastern North Pacific Hurricane Season of 1995, 1152–1162
- RAPPAPORT, EDWARD N.; see MAYFIELD, MAX; 3068–3076
- RASMUSSEN, ERIK N.; STRAKA, JERRY M.; Variations in Supercell Morphology. Part I: Observations of the Role of Upper-Level Storm-Relative Flow, 2406–2421
- RASMUSSEN, ERIK N.; see MARKOWSKI, PAUL M.; 2942–2958
- RASMUSSEN, ERIK N.; see MARKOWSKI, PAUL M.; 2959–2971
- RAYMOND, WILLIAM H.; AUNE, ROBERT M.; Improved Precipitation Forecasts Using Parameterized Precipitation Drag in a Hydrostatic Forecast Model, 693–710
- REASON, CHRIS J. C.; see GUAN, SHUCAI; 972–990
- REID, ROBERT O.; see WANG, WENSU; 2864–2883
- RENNÓ, NILTON O.; see MULLEN, STEVEN L.; 3016–3035
- RENNICK, JAMES A.; ENSO-Related Variability in the Frequency of South Pacific Blocking, 3117–3123
- RICHARDSON, R. A.; see GINIS, I.; 1054–1079
- RIISHOIGARD, L. P.; COHN, S. E.; LI, Y.; MÉNARD, R.; *The Use of Spline Interpolation in Semi-Lagrangian Transport Models, 2008–2016
- RIORDAN, ALLEN J.; see LANGMAID, ADAM H.; 2117–2132
- ROCH, MICHEL; see CÔTÉ, JEAN; 1373–1395
- ROCH, MICHEL; see CÔTÉ, JEAN; 1397–1418
- RODGERS, EDWARD B.; OLSON, WILLIAM S.; KARYAMPUDI, V. MOHAN; PIERCE, HAROLD F.; Satellite-Derived Latent Heating Distribution and Environmental Influences in Hurricane Opal (1995), 1229–1247
- ROEBBER, PAUL J.; BOSART, LANCE F.; The Sensitivity of Precipitation to Circulation Details. Part I: An Analysis of Regional Analogs, 437–455
- ROGERS, D. P.; see DORMAN, C. E.; 600–619
- ROMERO, ROMUALDO; RAMIS, CLEMENTE; ALONSO, SERGIO; DOSWELL, CHARLES A., III; STENSRUD, DAVID J.; Mesoscale Model Simulations of Three Heavy Precipitation Events in the Western Mediterranean Region, 1859–1881
- ROSSA, A. M.; see DAVIES, H. C.; 1528–1539
- ROSSOW, W. B.; see MACHADO, L. A. T.; 1630–1654
- ROTHSTEIN, L. M.; see GINIS, I.; 1054–1079
- ROUX, FRANK; see VILTARD, NICOLAS; 281–302
- ROZUMALSKI, ROBERT A.; see KAPLAN, MICHAEL L.; 2133–2165
- RUKHOVETS, LEONID; TENENBAUM, JOEL; GELLER, MARVIN; The Impact of Additional Aircraft Data on the Goddard Earth Observing System Analyses, 2927–2941
- SALSTEIN, DAVID A.; see ISKENDERIAN, HAIG; 1681–1694
- SANDVIK, ANNE DAGRUN; Implementation and Validation of a Condensation Scheme in a Nonhydrostatic Mesoscale Model, 1882–1905
- SAUNDERS, R. W.; see TOMASSINI, M.; 1274–1286
- SCHMITZ, JEFFREY T.; see MULLEN, STEVEN L.; 3016–3035
- SCHOLS, J. L.; see ALEXANDER, G. DAVID; 1469–1496
- SCHULTZ, DAVID M.; BRACKEN, W. EDWARD; BOSART, LANCE F.; Planetary- and Synoptic-Scale Signatures Associated with Central American Cold Surges, 5–27
- SCHULTZ, DAVID M.; KEYSER, DANIEL; BOSART, LANCE F.; The Effect of Large-Scale Flow on Low-Level Frontal Structure and Evolution in Midlatitude Cyclones, 1767–1791
- SCHULTZ, DAVID M.; see STEENBURGH, W. JAMES; 2673–2691
- SCROGGS, JEFFREY S.; see QIAN, JIAN-HUA; 747–771
- SEDLACEK, DON; see KLIMOWSKI, BRIAN A.; 831–834
- SEECAMP, R.; see LESLIE, L. M.; 1248–1257
- SEIMON, ANTON; see BOSART, LANCE F.; 1497–1527
- SELUCHI, M.; SERAFINI, Y. V.; LE TREUT, H.; The Impact of the Andes on Transient Atmospheric Systems: A Comparison between Observations and GCM Results, 895–912
- SEMAZZI, FREDRICK H. M.; see QIAN, JIAN-HUA; 747–771
- SERAFINI, Y. V.; see SELUCHI, M.; 895–912
- SEVAULT, E.; see CASSOU, C.; 1035–1053
- SHAPIRO, M. A.; see NEIMAN, PAUL J.; 2521–2554
- SHCHEPETKIN, ALEXANDER F.; McWILLIAMS, JAMES C.; Quasi-Monotone Advection Schemes Based on Explicit Locally Adaptive Dissipation, 1541–1580
- SHUKLA, JAGADISH; see XUE, YONGKANG; 2782–2792
- SHUTTLEWORTH, W. JAMES; see YÜCEL, ISMAIL; 1977–1991
- SIEGEL, DAVID; see DICKEY, TOMMY; 1195–1201
- SIENKIEWICZ, META; see COHN, STEPHEN E.; 2913–2926
- SIGURDSON, DAVID; see DICKEY, TOMMY; 1195–1201
- SIVAKUMARAN, N. S.; see TODLING, R.; 2274–2286
- SKAMAROCK, WILLIAM C.; see WICKER, LOUIS J.; 1992–1999
- SKAMAROCK, WILLIAM C.; see TRIER, STANLEY B.; 2580–2598
- SMITH, PHILLIP J.; see LUPO, ANTHONY R.; 502–515
- SMITH, PHILLIP J.; see WALTHORN, KAREN D.; 2764–2781
- SMITH, ROGER K.; NOONAN, JULIE A.; Generation of Low-Level Mesoscale Convergence Lines over Northeastern Australia, 167–185
- SMITH, SHAWN R.; GREEN, PHAEDRA M.; LEONARDI, ALAN P.; O'BRIEN, JAMES J.; Role of Multiple-Level Tropospheric Circulations in Forcing ENSO Winter Precipitation Anomalies, 3102–3116
- SMULL, B. F.; see NEIMAN, PAUL J.; 2521–2554
- SNOW, JOHN T.; see MAGSIG, MICHAEL A.; 1430–1449
- SONG, Y. TONY; A General Pressure Gradient Formulation for Ocean Models. Part I: Scheme Design and Diagnostic Analysis, 3213–3230
- SONG, Y. TONY; WRIGHT, DANIEL G.; A General Pressure Gradient Formulation for Ocean Models. Part II: Energy, Momentum, and Bottom Torque Consistency, 3231–3247
- SOUSOUNIS, PETER J.; Lake-Aggregate Mesoscale Disturbances. Part IV: Development of a Mesoscale Aggregate Vortex, 3169–3188
- SPENCER, PHILLIP L.; STENSRUD, DAVID J.; Simulating Flash Flood Events: Importance of the Subgrid Representation of Convection, 2884–2912
- SPINOSO, C.; see LESLIE, L. M.; 1248–1257
- STANFORTH, ANDREW; see CÔTÉ, JEAN; 1373–1395
- STANFORTH, ANDREW; see CÔTÉ, JEAN; 1397–1418
- STANFORTH, ANDREW; see LE ROUX, DANIEL Y.; 1931–1951
- STEENBURGH, W. JAMES; SCHULTZ, DAVID M.; COLLE, BRIAN A.; The Structure and Evolution of Gap Outflow over the Gulf of Tehuantepec, Mexico, 2673–2691
- STEIN, JOEL; see BÉLAIR, STÉPHANE; 2234–2253
- STENSRUD, DAVID J.; see ROMERO, ROMUALDO; 1859–1881
- STENSRUD, DAVID J.; see SPENCER, PHILLIP L.; 2884–2912
- STOELINGA, MARK T.; see LOCATELLI, JOHN D.; 860–875
- STOTT, PETER A.; see MOTE, PHILIP W.; 1655–1680
- STRAKA, JERRY M.; see RASMUSSEN, ERIK N.; 2406–2421
- STRAKA, JERRY M.; see MARKOWSKI, PAUL M.; 2942–2958
- STRAKA, JERRY M.; see MARKOWSKI, PAUL M.; 2959–2971
- STRAUS, DAVID M.; YI, YUHONG; Interactions of Synoptic and Planetary Waves: Scale-Dependent Forcing of a GCM, 876–894
- SURGI, NAOMI; PAN, HUA-LU; LORD, STEPHEN J.; Improvement of the NCEP Global Model over the Tropics: An Evaluation of Model Performance during the 1995 Hurricane Season, 1287–1305
- SWAIL, VAL; see DESJARDINS, SERGE; 2793–2808
- TAKEDA, TAKAO; see FUJIOHSHI, YASUSHI; 72–91
- TAN, PEI-HUA; see FOVELL, ROBERT G.; 551–577
- TAO, WEI-KUO; see CHEN, CHANG; 349–371
- TAO, WEI-KUO; see LYNN, BARRY H.; 928–942
- TAO, ZU-YU; see CHEN, SHOU-JUN; 2330–2351

- TARTAGLIONE, NAZARIO; see BUZZI, ANDREA; 2369–2383
- TAYANÇ, METE; KARACA, MEHMET; DALFES, H. NUZHET; *March 1987 Cyclone (Blizzard) over the Eastern Mediterranean and Balkan Region Associated with Blocking, 3036–3047
- TAYLOR, CHRISTOPHER M.; LEBEL, THIERRY; Observational Evidence of Persistent Convective-Scale Rainfall Patterns, 1597–1607
- TENENBAUM, JOEL; see RUKHOVETS, LEONID; 2927–2941
- TERRAY, L.; see CASSOU, C.; 1035–1053
- THUAL, O.; see CASSOU, C.; 1035–1053
- TODLING, R.; COHN, S. E.; SIVAKUMARAN, N. S.; Suboptimal Schemes for Retrospective Data Assimilation Based on the Fixed-Lag Kalman Smoother, 2274–2286
- TOMASSINI, M.; LEMUR, D.; SAUNDERS, R. W.; Near-Surface Satellite Wind Observations of Hurricanes and Their Impact on ECMWF Model Analyses and Forecasts, 1274–1286
- TRIBBIA, JOSEPH; see GONG, JIANJIAN; 210–231
- TRIER, STANLEY B.; LEMONE, MARGARET A.; SKAMAROCK, WILLIAM C.; Effect of Three-Dimensional Structure on the Stormwide Horizontal Accelerations and Momentum Budget of a Simulated Squall Line, 2580–2598
- TRIPOLI, GREGORY J.; see MECIKALSKI, JOHN R.; 2200–2216
- TSENG, S.-F.; see CHEN, CHANG; 349–371
- TSUBOKI, KAZUHISA; see ASUMA, YOSHIO; 2384–2405
- TULEYA, ROBERT E.; see KURIHARA, YOSHIO; 1306–1322
- TUTTLE, J. D.; see CARBONE, R. E.; 2847–2863
- TUTTLE, JOHN; see GALL, ROBERT; 1749–1766
- TUTTLE, JOHN D.; see KNUPP, KEVIN R.; 1837–1858
- ULIASZ, MAREK; see LYONS, WALTER A.; 2217–2233
- VALDEZ-MANZANILLA, ARTURO; see DOUGLAS, MICHAEL W.; 2017–2025
- VAN LEEUWEN, PETER JAN; see BURGERS, GERRIT; 1719–1724
- VELDEN, CHRISTOPHER S.; see GOERSS, JAMES S.; 1219–1227
- VELDEN, CHRISTOPHER S.; OLANDER, TIMOTHY L.; WANZONG, STEVE; The Impact of Multispectral GOES-8 Wind Information on Atlantic Tropical Cyclone Track Forecasts in 1995. Part I: Dataset Methodology, Description, and Case Analysis, 1202–1218
- VICKERS, DEAN; ESBENSEN, STEVEN K.; Subgrid Surface Fluxes in Fair Weather Conditions during TOGA COARE: Observational Estimates and Parameterization, 620–633
- VILTARD, NICOLAS; ROUX, FRANK; Structure and Evolution of Hurricane Claudette on 7 September 1991 from Airborne Doppler Radar Observations. Part II: Thermodynamics, 281–302
- VITERBO, PEDRO; see BETTS, ALAN K.; 186–198
- VONDER HAAR, THOMAS H.; see JONES, ANDREW S.; 634–645
- VONDER HAAR, THOMAS H.; see JONES, ANDREW S.; 646–667
- VUKIĆEVIĆ, TOMISLAVA; BAO, JIAN-WEN; The Effect of Linearization Errors on 4DVAR Data Assimilation, 1695–1706
- WAHBA, GRACE; see GONG, JIANJIAN; 210–231
- WAKIMOTO, ROGER M.; LIU, CHINGHWANG; CAI, HUAQING; The Garden City, Kansas, Storm during VORTEX 95. Part I: Overview of the Storm's Life Cycle and Mesocyclogenesis, 372–392
- WAKIMOTO, ROGER M.; LIU, CHINGHWANG; The Garden City, Kansas, Storm during VORTEX 95. Part II: The Wall Cloud and Tornado, 393–408
- WAKIMOTO, ROGER M.; see ATKINS, NOLAN T.; 525–550
- WALKER, ALISON W.; see MACHADO, L. A. TOLEDO; 1630–1654
- WALLACE, JOHN M.; see GARREAU, RENÉ D.; 2713–2733
- WALTHORN, KAREN D.; SMITH, PHILLIP J.; The Dynamics of an Explosively Developing Cyclone Simulated by a General Circulation Model, 2764–2781
- WANG, JIAN-JIAN; CHEN, YI-LING; A Case Study of Trade-Wind Rainbands and Their Interaction with the Island-Induced Airflow, 409–423
- WANG, TAI-CHI CHEN; see CHEN, CHANG; 349–371
- WANG, WEI; see CHEN, SHOU-JUN; 2330–2351
- WANG, WENSU; NOWLIN, WORTH D., JR.; REID, ROBERT O.; Analyzed Surface Meteorological Fields over the Northwestern Gulf of Mexico for 1992–94: Mean, Seasonal, and Monthly Patterns, 2864–2883
- WANZONG, STEVE; see VELDEN, CHRISTOPHER S.; 1202–1218
- WASHBURN, JAMES; see YUCEL, ISMAIL; 1977–1991
- WEGLARZ, RONALD P.; see HAMILTON, DAVID W.; 2061–2089
- WEINMAN, JAMES A.; see ALEXANDER, G. DAVID; 1469–1496
- WENG, SHU-PING; see CHEN, TSING-CHANG; 1080–1090
- WENG, SHU-PING; see CHEN, TSING-CHANG; 1725–1733
- WETZEL, PETER J.; see LYNN, BARRY H.; 928–942
- WHITAKER, JEFFREY S.; LOUGHE, ANDREW F.; The Relationship between Ensemble Spread and Ensemble Mean Skill, 3292–3302
- WICKER, LOUIS J.; see GILMORE, MATTHEW S.; 943–958
- WICKER, LOUIS J.; SKAMAROCK, WILLIAM C.; A Time-Splitting Scheme for the Elastic Equations Incorporating Second-Order Runge–Kutta Time Differencing, 1992–1999
- WILLIAMS, R. T.; see KUO, HUNG-CHI; 2640–2647
- WILLIAMSON, DAVID L.; OLSON, JERRY G.; A Comparison of Semi-Lagrangian and Eulerian Polar Climate Simulations, 991–1000
- WILLIAMSON, DAVID L.; OLSON, JERRY G.; BOVILLE, BYRON A.; A Comparison of Semi-Lagrangian and Eulerian Tropical Climate Simulations, 1001–1012
- WILLIFORD, C. E.; CORREA-TORRES, R. J.; KRISHNAMURTI, T. N.; *Tropical Cyclone Forecasts Made with the FSU Global Spectral Model, 1332–1336
- WILLOUGHBY, H. E.; Tropical Cyclone Eye Thermodynamics, 3053–3067
- WRIGHT, DANIEL G.; see SONG, Y. TONY; 3231–3247
- WU, GUOXIONG; ZHANG, YONGSHENG; Tibetan Plateau Forcing and the Timing of the Monsoon Onset over South Asia and the South China Sea, 913–927
- WU, WAN-SHU; see DERBER, JOHN C.; 2287–2299
- XUE, YONGKANG; SHUKLA, JAGADISH; Model Simulation of the Influence of Global SST Anomalies on Sahel Rainfall, 2782–2792
- YAMAZAKI, NUBUO; see CHEN, TSING-CHANG; 1080–1090
- YI, YUHONG; see STRAUS, DAVID M.; 876–894
- YOSHIMOTO, NAHIO; see FUJIOH, YASUSHI; 72–91
- YOUNG, GEORGE S.; see QIAN, LIYING; 456–469
- YUCEL, ISMAIL; SHUTTLEWORTH, W. JAMES; WASHBURN, JAMES; CHEN, FEI; Evaluating NCEP Eta Model-Derived Data against Observations, 1977–1991
- ZHANG, DA-LIN; see HUO, ZONGHUI; 424–436
- ZHANG, YONGSHENG; see WU, GUOXIONG; 913–927
- ZHAO, QINGYUN; see HONG, SONG-YOU; 2621–2639
- ZHU, YONG; NEWELL, REGINALD E.; A Proposed Algorithm for Moisture Fluxes from Atmospheric Rivers, 725–735
- ZIEGLER, CONRAD L.; see ATKINS, NOLAN T.; 525–550
- ZOU, X.; KUO, Y.-H.; LOW-NAM, S.; Medium-Range Prediction of an Extratropical Oceanic Cyclone: Impact of Initial State, 2737–2763
- ZWACK, PETER; see CAYA, ALAIN; 1707–1713

Section B. Subject Index

- Advection schemes, correction method for time-splitting algorithms, 232
- Advection schemes
 quasi-monotone schemes based on locally adaptive dissipation, 1541
 TVD limiters for upstream-biased schemes, 812
- Advective elimination, applied to the pressure gradient error in ocean models, 3231
- Aircraft data, impact on Goddard Earth Observing System analyses, 2927
- Air-sea interaction
 coupled model for ENSO prediction, 1022
 shear-parallel moist convection, 1952
- Alps, role of orography in the 1994 Piedmont flood in northern Italy, 2369
- Andes blocking, summertime incursions of midlatitude air into subtropical South America, 2713
- Anticyclones, interactions with synoptic-scale cyclones during summer, 502
- Anvil shadows, impact on low-level cooling, 2942
- Arctic storms, precipitation features observed during BASE, 2384
- Artificial neural networks, use in short-term precipitation forecasting, 470
- Assimilation
 data assimilation of *ERS-1* scatterometer winds, 736
 effect of linearization errors on 4DVAR data assimilation, 1695
 mesoscale cirrus cloud modeling and comparison against experimental data, 2422
 suboptimal schemes for retrospective data assimilation, 2274
 use of TOVS cloud-cleared radiances in the NCEP SSI analysis system, 2287
- Atmospheric angular momentum, regional sources of mountain torque variability, 1681
- Atmospheric blocking, interannual variability over the southern Pacific Ocean and impact on ENSO, 3117
- Available kinetic energy, dynamics of tropical plume formation, 2200
- Bandpass filter, design procedure applied to midlatitude intraseasonal variability, 3326
- Baroclinic waves, role in MCC and PECS development, 578
- Baroclinity, low-level production in association with anvil shadows, 2942
- Barotropic transport, bicubic Lagrangian and bicubic spline discretization, 2008
- Barrier jets, circulation during TAMEX, 959
- Beaufort Sea, precipitation features observed during BASE, 2384
- Blocking
 Blizzard of 1987 over eastern Mediterranean and Balkans region, 3036
 impact of initial condition uncertainty on onset and maintenance, 2482
 interactions of midlatitude anticyclones and cyclones, 502
 numerical prediction with forecast ensembles, 773
- Bores, atmospheric undular bore along the Texas coast, 1098
- Bore waves, generation of low-level convergence lines over Australia, 167
- Bottom pressure torque, modeling effects on the transport in western boundary currents, 3231
- Boundary layer
 high-resolution simulation of surface and turbulent fluxes, 2234
 influence on development of low-level jet, 2972
 land-surface interaction in the ECMWF reanalysis model, 186
 modeling of a coastally trapped disturbance, 972
- California coast, observations and analysis of a coastally trapped disturbance, 2435
- CAPE
 inertial available kinetic energy and dynamics of tropical plume formation, 2200
 role of upper-level flow in supercell morphology, 2406
- Catalina eddy, observations and analysis of a coastally trapped disturbance, 2435
- Chebyshev-tau scheme, scale-dependent accuracy in regional spectral models, 2640
- Circulation
 algorithm for moisture flux from atmospheric rivers, 725
 Antarctic katabatic wind interaction with large-scale forcing, 199
 barrier jets during TAMEX, 959
 diurnal variation of the Gulf of California low-level jet, 2017
 horizontal structure of anomalous weather regimes in the NCAR CCM, 841
 impact of the Andes on transient systems, 895
 impact on precipitation—analysis of regional analogs, 437
 intensification of low-level jets during MCS development, 349
 interannual variation of synoptic-scale disturbances in the western Pacific, 1725
 mesoscale flow in a small mesoscale convective system, 1837
 mixed-layer characteristics during a coastally trapped event, 600
 objective diagnosis of binary tropical cyclone interactions, 1734
 role of Tibetan Plateau forcing on monsoon onset, 913
 simulated wintertime stratospheric flow, 1655
- Cirrus clouds, mesoscale cirrus cloud modeling and comparison against experimental data, 2422
- Climate models
 comparison of semi-Lagrangian and Eulerian polar simulations, 991
 comparison of semi-Lagrangian and Eulerian tropical simulations, 1001
- Climate simulation, impact of ocean surface heterogeneity, 1419
- Climatology, large peak current cloud-to-ground lightning flashes during the summer, 2217
- Cloud fraction, using maximum-random overlap technique, 3336
- Cloud-to-ground lightning, evolution of characteristics in tornadic supercells, 1451
- Cloud tracking, use of distance transforms, 785
- Clouds
 cirriform rotor cloud over an Arctic ice cap, 1741
 generation of low-level mesoscale convergence lines, 167
 prognostic cloud scheme for a regional spectral model, 2621
 role of soil moisture discontinuities in deep moist convection, 928
 use of satellite data to study mesoscale convective system morphology, 1630
- Coastal trapping, observations and analysis of a coastally trapped disturbance, 2435
- Cold cloud index, application of wavelet transform to Meteosat data, 2466
- Cold fronts, observational study of fronts and frontal mergers, 2521
- Cold surges, planetary- and synoptic-scale signatures of Central American surges, 5
- Condensation schemes, implementation in a mesoscale model, 1882
- Convection
 cell life cycle and regeneration of simulated multicell storms, 551
 climatology and characteristics of MCCs during 1992 and 1993, 578
 convective wake parameterization for use in GCMs, 456
 dynamics and prediction of a mesoscale extreme rain event, 1608
 interaction of rainbands and island-induced airflow, 409
 kinematic structure of mesogamma-scale systems in a snowband, 72
 latent heating distributions in a hurricane, 1229
 life cycle variations of mesoscale convective systems, 1630

- mesoscale circulation growth with weak inertial instability, 118
 modeling heavy rainstorms along the Mei-Yu front, 2330
 observations of dryline finescale structure, 525
 observed in eyewall of tropical cyclones, 3053
 Pacific-South American modes in the Tropics, 1581
 radar echo structure and lightning behavior in a small MCS, 1812
 role in intensification of low-level jets, 349
 role of soil moisture discontinuities, 928
 role of summertime incursions of midlatitude air into subtropical South America, 2713
 shear-parallel rainbands over the tropical ocean, 1952
- Convective cloud systems, periodicities derived by wavelet transforms of Meteosat data, 2466
- Convective downdrafts, effect on model sensitivity in simulations of flash-flood producing storms, 2884
- Convective overturnings, reconciling observations, simulations, and theory for MCSs, 2254
- Convective parameterizations
 reconciling observations, simulations, and theory for MCSs, 2254
 trigger function for mass-flux cumulus scheme, 2599
- Convective snowband, influence of sea state variables over the Baltic Sea, 2822
- Convergence lines, genesis of low-level mesoscale lines over Australia, 167
- Coriolis parameter, effect on wind trajectories in a gap outflow event, 2673
- Coupled models
 distributed modeling and sensitivity to coupling flux precision, 1035
 model for ENSO prediction, 1022
 ocean data assimilation system, 1013
- Cross-barrier flow, role in three-dimensional simulation of mountain windstorms, 53
- Cumulus parameterization, impact on simulations of Hurricane Florence, 3077
- Cyclogenesis
 case study of Tibetan Plateau influence on development of a Mei-Yu cyclone, 2692
 impact of introducing initial perturbations in simulation of the ERICA bomb, 2737
- Cyclone development, in the Great Lakes region during winter, 3169
- Cyclone structure, precipitation features observed during BASE, 2384
- Cyclones
 effect of large-scale environment on evolution, 1767
 forecast improvement using digital image warping of water vapor imagery, 1469
 frontal forcing of an extreme snow event, 329
 frontal structure and the occlusion process, 303
 interactions with anticyclones during summer, 502
 magnitude of the deformation term in the quasigeostrophic omega equation, 2000
 mesoscale evolution of a continental occluded cyclone, 1793
 moisture patterns in deepening extratropical cyclones, 2352
 role of upper-tropospheric processes in development of Mei-Yu disturbances, 2692
 study of mesoscale structure with emphasis on an inertia-gravity wave, 1497
- Data assimilation
 assimilation of ERS-1 scatterometer winds, 736
 design of a global environmental multiscale model, 1373
 effect of linearization errors on 4DVAR assimilation, 1695
 evaluation of a global environmental multiscale model, 1397
 methodology for using satellite-derived heating rates in a regional model, 634
 ocean data assimilation in a coupled model for ENSO prediction, 1013
 satellite-derived heating rates as proxy surface wetness data, 646
 suboptimal schemes for retrospective data assimilation, 2274
 use of an ensemble Kalman filter technique, 796
 using a coupled atmosphere-ocean model system, 2822
 wind data assimilation to improve hurricane track forecasts, 1248
- Data selection, effects on a physical-space statistical global analysis system, 2913
- Density currents, dependence of cold-pool depth on source conditions, 516
- Derecho, multiscale evolution in association with MCSs, 2991
- Digital image warping, use in improving forecasts of marine extratropical cyclones, 1469
- Distance transforms, use in tracking tropical convective complexes, 785
- Divergence, accuracy of vertical velocities from Doppler radar data, 92
- Doppler radar
 accuracy of vertical velocity data, 92
 analysis of a squall line associated with a cold front aloft, 860
 kinematic structure of mesogamma-scale convective cloud systems, 72
 observations of dryline finescale structure, 525
 quadruple method used to document flow within a TOGA COARE squall line, 3189
- Drainage flow, Antarctic katabatic wind interaction with large-scale forcing, 199
- Drylines
 prefrontal wind-shift lines in the plains, 141
 radar observations of finescale structure, 525
- Dust aerosols, impact of shortwave radiative effects in a desert environment, 3153
- Dynamics
 application of potential vorticity inversion to improve NWP, 424
 cyclone structure with emphasis on an inertia-gravity wave, 1497
 deformation term in the quasigeostrophic omega equation, 2000
 effect of large-scale flow on low-level frontal structure, 1767
 frontogenesis from a potential vorticity perspective, 1528
 interactions of midlatitude anticyclones and cyclones, 502
 low-level jet intensification during MCS development, 349
 mesoscale extreme rain event, 1608
 role in moisture transport in a wintertime precipitation event, 668
 role of the Korean mountain complex in mesoscale cyclogenesis, 2305
- Easterly waves, Atlantic tropical systems of 1994 and 1995, 1106
- Elastic equations, time-splitting scheme using second-order time differencing, 1992
- Elves, large peak current cloud-to-ground lightning flashes during the summer, 2217
- Emissivity, merged with cloud fraction in a nonscattering longwave radiation scheme, 3336
- Empirical orthogonal function, used to analyze simulations of intraseasonal oscillation in India monsoon, 3124
- Ensemble Kalman filter, implementation and interpretation of the analysis scheme, 1719
- Ensemble mean, utility as a numerical forecast product, 3292
- Ensemble predictions
 evaluation of Eta-RSM probabilistic precipitation forecasts, 711
 geographical dependence of the ensemble spread-skill relationship, 3292
 impact of ensemble size, 2503
 prediction of blocking onset, 773
- Ensemble spread, investigation of variability using a linear quasigeostrophic model, 3292
- ENSO
 association of cold and warm phases with U.S. winter precipitation anomalies, 3102
 prediction with a coupled model, 1022
 related to variability in the frequency of South Pacific blocking, 3117
 signature recurrence in synthetic data, 2809
- Equatorward cold incursions, summertime incursions of midlatitude air into subtropical South America, 2713

- Ertel potential vorticity, using tropopause maps to diagnose midlatitude weather systems, 2555
- Eta Model, evaluation of derived data against observations, 1977
- Eulerian models
- comparison with semi-Lagrangian polar climate simulations, 991
 - comparison with semi-Lagrangian tropical climate simulations, 1001
- Extratropical cyclones
- mesoscale evolution of a continental occluded cyclone, 1793
 - moisture patterns in deepening maritime cyclones, 2352
 - observational study of fronts and frontal mergers, 2521
 - precipitation features observed during BASE, 2384
 - simulation of structure and dynamics of a winter extra tropical cyclone, 2764
- Feature tracking, use of distance transforms, 785
- Flash floods, importance of subgrid representation of convection in numerical simulations, 2884
- Floods, numerical simulations of the 1994 Piedmont flood, 2369
- Forecasting, impact of ensemble size on ensemble prediction, 2503
- Frequency domain analysis, use in constructing synthetic monthly SST anomaly data, 2809
- Fronts
- effect of large-scale flow on structure, 1767
 - forcing of an extreme snow event, 329
 - observational study of fronts and frontal mergers, 2521
 - potential vorticity perspective for dynamical insight, 1528
 - role of cold fronts aloft in squall lines, 860
 - structure and occlusion in a winter cyclone, 303
- Froude number, used to diagnose the strength of island blocking effect in Hawaii, 2847
- Gap flow, high-resolution observational study of a windstorm in the Cascade Mountains, 28
- General circulation
- Atlantic hurricanes of 1995, 1124
 - Atlantic tropical systems of 1994 and 1995, 1106
 - environmental conditions for the active 1995 Atlantic hurricane season, 1174
 - global tropical cyclone activity during 1995, 1163
 - interaction of synoptic and planetary waves in a GCM, 876
 - mountain torque variability and changes in atmospheric angular momentum, 1681
 - North Pacific hurricanes of 1995, 1152
 - Pacific-South American modes and tropical convection, 1581
 - planetary- and synoptic-scale signatures of Central American cold surges, 5
 - simulated wintertime stratospheric flow, 1655
- General circulation models
- convective wake parameterization scheme, 456
 - distributed ocean-atmosphere modeling, 1035
 - effect of SST heterogeneity on climate simulation, 1419
 - horizontal structure of anomalous weather regimes in the NCAR CCM, 841
 - impact of initial condition uncertainty on onset/maintenance of blocking, 2482
 - impact of the Andes on transient systems, 895
 - NCAR CCM2 simulation of explosively developing extra tropical cyclone, 2764
 - sensitivity to the influence of global SST in simulations of Sahel rainfall, 2782
 - used to simulate intraseasonal oscillation in the India summer monsoon, 3124
 - used with a flexible bandpass filter to simulate intraseasonal variability, 3326
- GEOS-1, impact of the Global Aircraft Data Set on data assimilation system wind analysis, 2927
- Global analysis, physical-space statistical approach compared with optimal interpolation, 2913
- Global circulation model, errors in global precipitation and upper-tropospheric wind field forecasts, 3135
- Global models, NCEP model performance during the 1995 hurricane season, 1287
- Gravity currents, dependence of cold-pool depth on source conditions, 516
- Gravity waves, propagation in ocean models, 1931
- Great Lakes, role in development of lake-aggregate mesoscale disturbances, 3169
- Grids, unstructured meshes for shallow-water ocean models, 1931
- Grid resolution
- design of a global environmental multiscale model, 1373
 - design of a multiply nested ocean model, 1054
 - evaluation of a global environmental multiscale model, 1397
- Gulf Stream, influence on generation of mesoscale features in a wind field, 2793
- Gust fronts, convective wake parameterization for use in GCMs, 456
- Hailstorms, *GOES-8* observed damage, 831
- HAPEX-MOBILHY, high-resolution simulation of surface and turbulent fluxes, 2234
- Hawaiian Rainband Project, katabatic flow evolution on the island of Hawaii, 2185
- Heat flux
- effect of SST heterogeneity on climate simulation, 1419
 - land-surface interaction in the ECMWF reanalysis model, 186
- Heat low, impact of shortwave radiative effects of aerosols over Saudi Arabia, 3153
- Heating rates
- assimilation of satellite-derived rates as proxy wetness data, 646
 - data assimilation of satellite-derived rates in a regional model, 634
- Helicity, storm-relative, as observed in VORTEX case studies, 2959
- High-precipitation thunderstorm, numerical simulation of supercell thunderstorms, 2090
- Horizontal vorticity, associated with anvil shadows, 2942
- Hurricanes
- activity in the eastern North Pacific during 1996, 3068
 - Atlantic season of 1995, 1124
 - case study using a nested regional spectral model, 1337
 - Eastern Hemisphere cyclones of 1995, 257
 - environmental conditions for the active 1995 Atlantic season, 1174
 - forecasts with a global spectral model, 1332
 - impact of satellite wind observations on model analyses and forecasts, 1274
 - impact on upper-ocean temperature profile, 1195
 - improved track forecasting using continuous wind data assimilation, 1248
 - NCEP global model performance during the 1995 season, 1287
 - NOGAPS tropical cyclone track forecasts, 1219
 - North Pacific season of 1995, 1152
 - numerical prediction of Opal, 1347
 - observed small-scale spiral bands, 1749
 - performance of the GFDL prediction system during the 1995 season, 1306
 - performance of the UKMO global model in predicting tropical cyclone tracks, 1323
 - satellite-derived latent heating distributions, 1229
 - spatiotemporal extent of SST modifications by tropical cyclones, 1364
 - statistical analysis of severe systems reaching Japan, 1091
 - surface winds at landfall, 1259
 - thermodynamic retrieval method to deduce perturbation fields, 281
- Hurricane Florence, impact of initial conditions and rainfall assimilation, 3077
- Ice-ocean models, coupling with the regional weather forecast model in BALTEX, 2822
- Inertia-gravity waves, association with an intense cyclone, 1497

- Inertial instability**
 available kinetic energy and dynamics of tropical plume formation, 2200
 role in mesoscale circulation development, 118
- Initial conditions**
 application of potential vorticity inversion to improve NWP, 424
 impact on simulations of Hurricane Florence, 3077
 importance for key data-sparse regions in long-range cyclogenesis forecasts, 2737
 ocean data assimilation in a coupled model for ENSO prediction, 1013
- Initial condition uncertainty, impact on numerical simulations of blocking, 2482**
- Intraseasonal variability**
 of the summer monsoon over southeast Arizona, 3016
 simulated by application of a flexible bandpass filter design procedure, 3326
- Inversion, observed in the eye of tropical cyclones, 3053**
- Isergetic analysis, using tropopause PV maps to diagnose midlatitude weather systems, 2555**
- Jacobian, formulation of the pressure gradient force for use in ocean models, 3213**
- Jets**
 barrier jets during TAMEX, 959
 diurnal variation and horizontal extent of the Gulf of California LLJ, 2017
 role in MCC and PECS development, 578
- Jetlet**
 formation from diabatic forcing, 2061
 mesoscale dynamics in the 1994 Palm Sunday tornado outbreak, 2031
 numerical simulation of 1994 Palm Sunday tornado outbreak, 2133
- Jet stream, role in organizing vertical motions that modulate wintertime precipitation, 3102**
- Kain-Fritsch parameterization, use in numerical simulations of flash-flood-producing rainfall events, 2884**
- Kalman filter**
 data assimilation using an ensemble technique, 796
 implementation and interpretation of the analysis scheme, 1719
 suboptimal schemes for retrospective data assimilation, 2274
- Katabatic flow, evolution on the island of Hawaii, 2185**
- Katabatic wind, interaction with large-scale forcing, 199**
- Kelvin waves, observations and analysis of a coastally trapped disturbance, 2435**
- Kinematics**
 effect of large-scale flow on cyclone evolution, 1767
 mesoscale evolution of a continental occluded cyclone, 1793
- Kinematic structure, mesogamma-scale convective systems in a snowband, 72**
- Land-sea circulation, interaction of trade wind rainbands and island-induced airflow, 409**
- Latent heat, satellite-derived distributions in a hurricane, 1229**
- Latent heat flux, parameterization and estimates of subgrid fluxes during TOGA COARE, 620**
- Lateral boundary conditions, spatial interpolation schemes for nested grid models, 243**
- Lee troughs, prefrontal wind-shift lines in the plains, 141**
- Lightning**
 behavior in a small mesoscale convective system, 1812
 evolution of cloud-to-ground characteristics in supercells, 1451
 large peak current cloud-to-ground lightning flashes during the summer, 2217
- Low-frequency dynamics, intraseasonal variability of the summer monsoon over southeast Arizona, 3016**
- Low-level jets**
 diurnal variation and horizontal extent of the Gulf of California jet, 2017
 intensification during MCS development, 349
 numerical simulation of a return-flow event, 2972
- Marine boundary layer**
 enhancement of wind speed by Gulf Stream meanders and warm eddies, 2793
 modeling of a coastally trapped disturbance, 972
 observations and analysis of a coastally trapped disturbance, 2435
 sea surface mixed layer during a coastally trapped event, 600
- Maritime cyclones, moisture patterns in deepening extratropical cyclones, 2352**
- Maximum-random overlap, technique applied to problem of determining cloud fraction, 3336**
- Mean circulation, related to frequency of days of atmospheric blocking over the South Pacific, 3117**
- Medium-range prediction, impact of initial condition uncertainty on blocking, 2482**
- Mei-Yu front, modeling heavy rainstorms, 2330**
- Mesocyclones, airborne radar analysis, 372**
- Mesoscale, influence on development of a low-level jet, 2972**
- Mesoscale circulations**
 generation of low-level convergence lines, 167
 growth under conditions of weak inertial instability, 118
 orographic effects during a severe winter rainstorm in the Appalachians, 2648
- Mesoscale convective complexes, climatology and characteristics of MCCs during 1992 and 1993, 578**
- Mesoscale convective systems**
 convective overturning—reconciling observations, simulations, and theory, 2254
 development of strong straight-line winds in an eastern Colorado storm, 2991
 effects of 3D structure on MCS-scale horizontal accelerations, 2580
 evolution of stratiform precipitation and mesoscale flow, 1837
 life cycle variations over the Americas, 1630
 pressure transients in mesohighs and wake lows, 1907
 radar echo structure and lightning behavior, 1812
 role in intensification of low-level jets, 349
- Mesoscale cyclogenesis, numerical simulation in the lee of the Korean mountain complex, 2305**
- Mesoscale dynamics, Palm Sunday tornado outbreak of 1994, 2031**
- Mesoscale models**
 cirrus cloud modeling and comparison against experimental data, 2422
 heavy rainstorms along the Mei-Yu front, 2330
 implementation of a condensation scheme, 1882
 prognostic cloud scheme for regional spectral model, 2621
 reconciling observations, simulations, and theory for MCSs, 2254
 simulations of heavy precipitation events in the western Mediterranean, 1859
 use in examining the structure and dynamics of a gap outflow event, 2673
- Mesoscale processes, surface processes during 1994 Palm Sunday tornado outbreak, 2117**
- Mesoscale structures, cyclone structure with emphasis on an inertia-gravity wave, 1497**
- Mesoscale transients, description within mesohighs and wake lows of MCSs, 1907**
- Meteorological fields, analyzed for northwestern Gulf of Mexico 1992–1994, 2864**
- Mexican summer monsoon, intraseasonal variability of the summer monsoon over southeast Arizona, 3016**
- Midlatitude weather systems, using tropopause maps to diagnose structure, 2555**
- Mixed layer, characteristics during a coastally trapped event, 600**
- Moisture flux, algorithm for water vapor flux from atmospheric rivers, 725**
- Moisture transport, diagnosis of a wintertime precipitation event, 668**

- Momentum, depth-integrated changes in ocean models, 3231
- Momentum budget, associated with an oceanic MCS and simulated squall line, 2580
- Momentum flux, parameterization and estimates of subgrid fluxes during TOGA COARE, 620
- Monsoons
- numerical simulations of intraseasonal oscillation over India, 3124
 - role of Tibetan Plateau forcing, 913
 - role of vertical tropospheric structure in development of Mei-Yu cyclones, 2692
- Monsoon trough, role in interannual variation of tropical cyclone formation, 1080
- Mountain torque, role of high-frequency fluctuations in atmospheric angular momentum, 1681
- Mountain-valley winds, katabatic flow evolution on the island of Hawaii, 2185
- Multicell thunderstorms, cell life cycle and regeneration in simulated storms, 551
- Natural coordinates, diagnostic evaluation of vertical motion using Q-vector partitioning, 2166
- NCAR-NCEP reanalysis project, error analysis of upper-tropospheric divergence for 10 years of forecasts, 3135
- Nested grid models, comparison of spatial interpolation schemes, 243
- Nested models, multiply nested primitive equation ocean model, 1054
- Neural networks, use in short-term precipitation forecasting, 470
- Numerical methods
- impact of ensemble size on ensemble prediction, 2503
 - scale-dependent accuracy in regional spectral models, 2640
- Numerical modeling
- heavy rainstorms along the Mei-Yu front, 2330
 - high-resolution simulation of surface and turbulent fluxes, 2234
 - mesoscale cirrus cloud modeling and comparison against experimental data, 2422
 - prognostic cloud scheme for a regional spectral model, 2621
 - reconciling observations, simulations, and theory for MCSs, 2254
 - simulations of the 1994 Piedmont flood, 2369
 - suboptimal schemes for retrospective data assimilation, 2274
 - trigger function for the mass-flux cumulus parameterization scheme, 2599
 - use of TOVS cloud-cleared radiances in the NCEP SSI analysis system, 2287
- Numerical simulations
- cell life cycle and regeneration in multicell thunderstorms, 551
 - moisture patterns in deepening extratropical cyclones, 2352
 - structure and evolution of high-precipitation supercell thunderstorms, 2090
 - unbalanced jetlet and its role in 1994 Palm Sunday tornado outbreak, 2133
- Numerical weather prediction
- adaptive tuning of NWP models, 210
 - analysis scheme in the ensemble Kalman filter, 1719
 - application of potential vorticity inversion, 424
 - consequences of using the splitting method in a semi-Lagrangian model, 1707
 - correction method for time-splitting advection algorithms, 232
 - data assimilation using an ensemble Kalman filter technique, 796
 - design of a global environmental multiscale model, 1373
 - distributed coupled models and sensitivity to coupling flux precision, 1035
 - effect of linearization errors on 4DVAR data assimilation, 1695
 - evaluation of a global environmental multiscale model, 1397
 - evaluation of ensemble probabilistic precipitation forecasts, 711
 - evaluation of NCEP Eta Model-derived data, 1977
 - forecast ensemble prediction of blocking onset, 773
 - GCM results of Andes impact on transient systems, 895
 - global nonhydrostatic model with orography, 747
 - horizontal structure of anomalous weather regimes in the NCAR CCM, 841
 - hurricane case study using a nested regional spectral model, 1337
 - impact of satellite wind observations on model analyses and forecasts, 1274
 - implementation of a condensation scheme in a mesoscale model, 1882
 - improved precipitation forecasts using parameterized Rayleigh drag, 693
 - mesoscale cyclogenesis east of the Korean peninsula, 2305
 - NCEP global model performance during the 1995 hurricane season, 1287
 - NOGAPS tropical cyclone track forecasts, 1219
 - performance of the GFDL hurricane system during the 1995 season, 1306
 - performance of the UKMO global model in predicting tropical cyclone tracks, 1323
 - prediction of Hurricane Opal, 1347
 - quasi-monotone advection schemes based on locally adaptive dissipation, 1541
 - reduction of noisy constituent fields in semi-Lagrangian models, 2008
 - spatial interpolation schemes for nested grid models, 243
 - time-splitting scheme for elastic equations, 1992
 - tropical cyclone forecasts with a global spectral model, 1332
- Objective analysis, use of TOVS cloud-cleared radiances in the NCEP SSI analysis system, 2287
- Occlusions
- mesoscale evolution of a continental cyclone, 1793
 - process in winter cyclones, 303
- Ocean-atmosphere modeling, distributed modeling and sensitivity to coupling flux precision, 1035
- Ocean models
- finite elements for shallow-water ocean models, 1931
 - multiply nested primitive equation model, 1054
 - resolving topography with partial cells, 3248
 - use of general pressure gradient formulation, 3213
- Ocean modeling, use of TVD limiters for forward-in-time advection schemes, 812
- Ocean temperature, response to passage of a hurricane, 1195
- Omega equation, magnitude of the deformation term, 2000
- Optimal interpolation, compared with a physical-space statistical global analysis system, 2913
- Orographic effects, severe wintertime rainstorm in the Appalachian Mountains, 2648
- Orographic flow, katabatic flow evolution on the island of Hawaii, 2185
- Orographic precipitation, simulations incorporating high-resolution elevation and vegetation data, 3271
- Orography
- blending in the lateral boundary of a regional model, 1714
 - high-resolution observational study of a Cascade Mountains event, 28
 - impact of the Andes on transient systems, 895
 - inclusion in a nonhydrostatic semi-Lagrangian atmospheric model, 747
 - mesoscale cyclogenesis in the lee of the Korean mountain complex, 2305
 - role in mesoscale model simulations of heavy precipitation events, 1859
 - role in the 1994 Piedmont flood, 2369
 - role of Tibetan Plateau forcing on monsoon onset, 913
 - three-dimensional simulations of mountain windstorms, 53
- Ozone, levels in relation to trends in tropopause pressure, 3303
- Palm Sunday tornado outbreak
- jetlet formation from diabatic forcing, 2061
 - mesoscale dynamics, 2031
 - numerical simulation of unbalanced jetlet, 2133
 - surface mesoscale processes, 2117
- Planetary waves
- impact of initial condition uncertainty on onset/maintenance of blocking, 2482

- interaction with synoptic waves in a GCM, 876
- signatures associated with Central American cold surges, 5
- Polar meteorology, Antarctic katabatic wind interaction with large-scale forcing, 199
- Potential vorticity
 - importance of accurate analysis in numerical forecasts of cyclogenesis, 2737
 - perspective for studying upper-tropospheric fronts, 1528
 - role in occlusion process in winter cyclones, 303
 - threshold values used to define tropopause level, 3303
 - using tropopause maps to diagnose midlatitude weather systems, 2555
- Potential vorticity inversion, application to improving numerical weather prediction, 424
- Precipitation
 - anomalies, role of ENSO, low-level moisture, and upper-level dynamics in winter in the United States, 3102
 - bands, summertime incursions of midlatitude air into subtropical South America, 2713
 - efficiencies, effect on model sensitivity in simulations of flash-flood-producing storms, 2884
 - ensemble probabilistic forecasts, 711
 - evidence of persistent convective-scale rainfall patterns, 1597
 - evolution in a small mesoscale convective system, 1837
 - forecasts using artificial neural networks, 470
 - mesoscale model simulations of heavy events in the Mediterranean, 1859
 - moisture transport of a wintertime event, 668
 - orographic effects during severe winter rainstorm in the Appalachians, 2648
 - parameterized drag to improve numerical prediction, 693
 - role of upper-level flow in thunderstorm morphology, 2406
 - sensitivity of synoptic circulation—analysis of regional analogs, 437
- Prediction, impact of ensemble size on ensemble prediction, 2503
- Pressure gradient, role in three-dimensional simulation of mountain windstorms, 53
- Pressure gradient force, Jacobian form for use in models with topography-following coordinates, 3213
- Pressure, thermodynamic retrieval method to deduce perturbation fields for hurricanes, 281
- Pressure transients, lifetime in mesohighs and wake lows of MCSs, 1907
- Profilers, use in high-resolution observational study of a windstorm, 28
- Q vector, diagnostic evaluation of vertical motion forcing mechanisms, 2166
- Quasigeostrophic theory
 - diagnostic evaluation of vertical motion using Q-vector partitioning, 2166
 - magnitude of the deformation term in the omega equation, 2000
- Radar
 - accuracy of vertical velocities from Doppler data, 92
 - airborne analysis of mesocyclogenesis, 372
 - observations, precipitation features observed during BASE, 2384
 - observations of dryline finescale structure, 525
 - reflectivity, observed small-scale spiral bands in hurricanes, 1749
 - VHF-ST observations of an upper-level front, 483
- Radiational cooling, associated with anvil shadows in high-shear environments, 2942
- Rainbands
 - interaction with island-induced airflow, 409
 - shear-parallel moist convection over the tropical ocean, 1952
- Rainfall
 - dynamics and prediction of a mesoscale extreme event, 1608
 - evidence of persistent convective-scale precipitation patterns, 1597
 - forecasts using artificial neural networks, 470
 - mesoscale model simulations of heavy precipitation events, 1859
 - parameterized drag to improve numerical prediction, 693
 - related to Froude number variations, 2847
- Rainfall assimilation, impact on simulations of Hurricane Florence, 3077
- Rainstorms
 - modeling heavy rainstorms along the Mei-Yu front, 2330
 - orographic effects during severe winter rainstorm in the Appalachians, 2648
- Rayleigh drag, use to improve precipitation forecasts in a hydrostatic model, 693
- Regional climate model, used to simulate intraseasonal oscillation in the India summer monsoon, 3124
- Regional modeling
 - prognostic cloud scheme for regional spectral model, 2621
 - scale-dependent accuracy in spectral models, 2640
 - trigger function for mass-flux cumulus parameterization scheme, 2599
- Regional models
 - assimilation of satellite-derived heating rates as proxy wetness data, 646
 - data assimilation of satellite-derived heating rates, 634
 - hurricane case study using a nested spectral model, 1337
 - orography blending technique near lateral boundaries, 1714
- Remote sensing
 - digital image warping of water vapor imagery to improve cyclone forecasts, 1469
 - impact of satellite wind observations of hurricanes on forecasts, 1274
 - incorporation of GOES-8 wind information for tropical cyclone forecasts, 1202
 - methodology for using satellite-derived heating rates in a regional model, 634
 - satellite-derived latent heating distributions in a hurricane, 1229
 - use of satellite data to study mesoscale convective system morphology, 1630
- Return flow, from Gulf of Mexico and Mexican high plains; generation of low-level jet, 2972
- Richardson number, role of upper-level flow in supercell thunderstorm morphology, 2406
- Rotor clouds, cirriform cloud over an Arctic ice cap, 1741
- Saffir-Simpson scale, applied to hurricanes in the eastern North Pacific during 1996, 3068
- Sahel rainfall, influence of global SST anomalies, 2782
- Salinity, TVD limiters for forward-in-time advection schemes in ocean modeling, 812
- Satellite
 - data, mesoscale cirrus cloud modeling and comparison against experimental data, 2422
 - imagery, hailstorm damage observed from GOES-8, 831
 - observations, moisture patterns in deepening extratropical cyclones, 2352
 - retrievals, use of TOVS cloud-cleared radiances in the NCEP SSI analysis system, 2287
- Scale interactions, interaction of synoptic and planetary waves in a GCM, 876
- Scatterometer measurements, optimization of data assimilation, 736
- Sea level pressure, response to a coastally trapped disturbance, 972
- Sea state variables, influence on local, regional, and larger-scale model forecasts, 2822
- Sea surface temperatures
 - anomalies, influence on rainfall in the Sahel region of Africa, 2782
 - changes associated with a gap outflow event, 2673
 - distributions, influence on surface winds, 2793
 - effect of heterogeneity on climate simulation, 1419
 - ENSO prediction with a coupled model, 1022
 - generation of synthetic data for the equatorial Pacific Ocean, 2809
 - interaction with general circulation of the Texas-Louisiana shelf region, 2864
 - response to passage of a hurricane, 1195
 - role in active 1995 Atlantic hurricane season, 1174
 - role in interannual variation of tropical cyclone formation, 1080
 - spatiotemporal extent of modifications by hurricanes, 1364

Semi-Lagrangian models

- comparison with Eulerian polar climate simulations, 991
- comparison with Eulerian tropical climate simulations, 1001
- consequences of using the splitting method for physical forcings, 1707
- global nonhydrostatic model with orography, 747
- use of spline interpolation, 2008

Sensible heat flux, parameterization and estimates of subgrid fluxes during TOGA COARE, 620

Severe thunderstorms

- airborne radar analysis of mesocyclogenesis, 372
- airborne radar analysis of tornadogenesis, 393
- evolution of cloud-to-ground lightning characteristics, 1451

Shallow-water models, finite-element discretization on unstructured meshes, 1931

Shortwave radiative fluxes, associated with dust aerosols over the Saudi Arabian region, 3153

Smoothing

- parameters, adaptive tuning of NWP models, 210
- schemes, suboptimal schemes for retrospective data assimilation, 2274

Snow, frontal forcing of an extreme event, 329

Snowbands, dual-Doppler study of three-dimensional kinematic structure, 72

Soil moisture

- land surface interaction in the ECMWF reanalysis model, 186
- role in deep moist convection, 928
- role in persistent convective-scale rainfall patterns, 1597
- satellite-derived heating rates as proxy surface wetness data, 646
- satellite-derived heating rates used as proxy data—methodology, 634

South Atlantic convergence zone, effect on forecast errors for South American rainfall, 3135

Spatial interpolation, comparison of schemes for nested grid models, 243

Spectral modeling

- prognostic cloud scheme for regional model, 2621
- trigger function for mass-flux cumulus parameterization scheme, 2599

Spectral numerical models, scale-dependent accuracy for regional models, 2640

Spiral bands, observations in hurricanes, 1749

Sprites, large peak current cloud-to-ground lightning flashes during the summer, 2217

Squall lines

- evolution and dynamics of a TOGA COARE case, 3189
- mesoscale structure and relation to a cold front aloft, 860

ST radar, observations using vertical and oblique-beam measurements, 483

Storm-fest, observational study of fronts and frontal mergers, 2521

Stratiform precipitation, evolution in a small mesoscale convective system, 1837

Stratosphere, simulated flow during winter, 1655

Subgrid parameterization, use in representing orographic precipitation, 3271

Supercells, airborne radar analysis of tornadogenesis, 393

Supercell thunderstorms

- evolution of cloud-to-ground lightning characteristics, 1451
- influence of midtropospheric dryness on evolution, 943
- long-distance debris transport in tornadic storms, 1430
- numerical simulation of high-precipitation supercell thunderstorms, 2090
- role of upper-level flow in storm morphology, 2406

Surface coolings, associated with anvil shadows, 2942

Surface fluxes

- high-resolution simulation of fluxes during HAPEX-MOBILHY, 2234
- parameterization and estimates of subgrid fluxes during TOGA COARE, 620

Surface radiation, Eta Model-derived values versus observations, 1977

Surface winds, interannual variability over the Texas–Louisiana shelf region, 2864

Synoptic circulation, impact on precipitation—analysis of regional analogs, 437

Synoptic climatology

- intraseasonal variability of the summer monsoon over southeast Arizona, 3016
- summertime incursions of midlatitude air into subtropical South America, 2713

Synoptic patterns, signatures associated with Central American cold surges, 5

Synoptic scale, influence on development of a low-level jet, 2972

Synoptic-scale forcing, importance in development of lake-aggregate mesoscale disturbances, 3169

Temperature

- response to a coastally trapped disturbance, 972
- thermodynamic retrieval method to deduce perturbation fields for hurricanes, 281

Thermodynamics

- analysis of a squall line associated with a cold front aloft, 860
- convective wake parameterization for use in GCMs, 456
- frontal forcing of an extreme snow event, 329
- influence of midtropospheric dryness on thunderstorm evolution, 943
- interactions of midlatitude anticyclones and cyclones, 502
- moisture transport in a wintertime precipitation event, 668
- observed in the eye of tropical cyclones, 3053
- retrieval method to deduce hurricane pressure perturbations fields, 281
- role in active 1995 Atlantic hurricane season, 1174
- role in interaction of rainbands and island-induced airflow, 409

Thunderstorms

- cell life cycle and regeneration in simulated storms, 551
- evolution of cloud-to-ground lightning characteristics, 1451
- influence of midtropospheric dryness on evolution, 943
- long-distance debris transport in tornadic storms, 1430
- mesoscale dynamics in the 1994 Palm Sunday tornado outbreak, 2031
- numerical simulation of high-precipitation supercell thunderstorms, 2090
- numerical simulation of an unbalanced jetlet in the Palm Sunday tornado outbreak, 2133
- response to jetlet formation from diabatic forcing, 2061
- surface mesoscale processes during the 1994 Palm Sunday tornado outbreak, 2117
- variations in supercell morphology; role of upper-level flow, 2406

Time-splitting schemes, scheme for elastic equations using second-order time differencing, 1992

TOGA COARE

- evolution and dynamics of late-stage squall line during an experiment, 3189
- numerical simulation of an oceanic MCS using a high-resolution 3D model, 2580

Topography, resolved in a z -level ocean model with partial cells, 3248

Tornadic activity, based on distribution and variability of storm-relative helicity, 2959

Tornadoes

- airborne radar analysis of genesis, 393
- airborne radar analysis of mesocyclogenesis, 372
- long-distance debris transport, 1430
- mesoscale dynamics in the 1994 Palm Sunday tornado outbreak, 2031
- numerical simulation of an unbalanced jetlet in the Palm Sunday tornado outbreak, 2133
- Palm Sunday outbreak, 1994, 2061
- prediction, based on distribution and variability of storm-relative helicity, 2959
- response to jetlet formation from diabatic forcing, 2061
- surface mesoscale processes during the 1994 Palm Sunday tornado outbreak, 2117

- TOVs, use of cloud-cleared radiances in the NCEP SSI analysis system, 2287
- Trade winds, associated with rainfall near the windward coast of Hawaii, 2847
- Transient response, produced in a σ -level ocean model that resolves topography with partial cells, 3248
- Transport modeling, correction method for time-splitting advection algorithms, 232
- Transport schemes, quasi-monotone schemes based on locally adaptive dissipation, 1541
- Trigger function, mass-flux cumulus parameterization scheme, 2599
- Tropical cloudiness, periodic events of convective activity over South America, 2466
- Tropical convection
 role of Pacific—South American modes, 1581
 tracking using distance transforms, 785
- Tropical cyclones
 Atlantic hurricanes of 1995, 1124
 Atlantic systems of 1994 and 1995, 1106
 case study using a nested regional spectral model, 1337
 contrast of high activity in the Atlantic with low activity elsewhere, 1163
 Eastern Hemisphere cyclones of 1995, 257
 environmental conditions for the active 1995 Atlantic season, 1174
 forecasts with a global spectral model, 1332
 hurricane surface winds at landfall, 1259
 impact of satellite wind observations on model analyses and forecasts, 1274
 impact on upper-ocean temperature profile, 1195
 improved track forecasting using continuous wind data assimilation, 1248
 interannual variation in formation over the western North Pacific, 1080
 NCEP global model performance during the 1995 hurricane season, 1287
 NOGAPS track forecasts, 1219
 North Pacific hurricanes of 1995, 1152
 numerical prediction of Hurricane Opal, 1347
 objective diagnosis of binary cyclone interactions, 1734
 observed small-scale spiral bands in hurricanes, 1749
 performance of the GFDL prediction system during the 1995 season, 1306
 performance of the UKMO global model in predicting tracks, 1323
 satellite-derived latent heating distributions, 1229
 spatiotemporal extent of SST modifications by hurricanes, 1364
 statistical analysis of severe typhoons reaching Japan, 1091
 thermodynamic retrieval method to deduce perturbation fields, 281
 thermodynamics of the eye and eyewall, 3053
 track forecasts incorporating remotely sensed wind information, 1202
- Tropical meteorology
 interannual variation of synoptic-scale disturbances, 1725
 shear-parallel moist convection, 1952
- Tropical plume formation, dynamics and inertial available kinetic energy, 2200
- Tropical storms, activity in the eastern North Pacific during 1996, 3068
- Tropopause
 comparison of semi-Lagrangian and Eulerian tropical simulations, 1001
 global pressure-level analysis, 3303
- Tropopause maps, diagnosing midlatitude weather systems, 2555
- Truncation error, consequences of using the splitting method in a semi-Lagrangian model, 1707
- Turbulence, ST radar observations using vertical and oblique-beam measurements, 483
- Turbulent fluxes, high-resolution simulation of fluxes during HAPEX-MOBILHY, 2234
- Typhoons
 Eastern Hemisphere cyclones of 1995, 257
 statistical analysis of severe systems reaching Japan, 1091
- Undular bores, atmospheric event along the Texas coast, 1098
- Vegetation, represented in subgrid scheme based on relationship with surface elevation, 3271
- Vertical motion, deformation term in the quasigeostrophic omega equation, 2000
- Vertical motion forcing, diagnostic evaluation using Q-vector partitioning, 2166
- Vertical velocity, accuracy from Doppler radar data, 92
- Vortices, objective diagnosis of binary tropical cyclone interactions, 1734
- Vorticity, dynamics of a mesoscale extreme rain event, 1608
- Wall clouds, relationship to radar reflectivity of developing hook echo, 393
- Water vapor
 algorithm for moisture flux from atmospheric rivers, 725
 imagery, digital warping to improve forecasts of marine cyclones, 1469
 transport, intraseasonal variability of the summer monsoon over southeast Arizona, 3016
- Wavelet transform, application to Meteosat cold cloud index data over South America, 2466
- Waves
 horizontal structure of anomalous weather regimes in the NCAR CCM, 841
 interaction of synoptic and planetary waves in a GCM, 876
 interannual variation of synoptic-scale disturbances in the western Pacific, 1725
- Weighting parameters, adaptive tuning of NWP models, 210
- Wind
 incorporation of remotely sensed information for tropical cyclone forecasts, 1202
 mixed-layer characteristics during a coastally trapped event, 600
 response to a coastally trapped disturbance, 972
 surface flow of hurricanes at landfall, 1259
- Wind analysis, impact of the Global Aircraft Data Set on accuracy, 2927
- Wind data, impact of satellite observations of hurricanes on model forecasts, 1274
- Wind shear, VHF-ST radar observations of an upper-level front, 483
- Wind shift, prefrontal lines in the plains of the United States, 141
- Wind trajectories
 Lagrangian model used to simulate 3D flow in derecho-producing MCSs, 2991
 simulated for a gap outflow event, 2673
- Windstorms
 high-resolution observational study of a Cascade Mountains event, 28
 three-dimensional simulations of mountain events, 53
- Zwack-Okossi equation, used as diagnostic tool in analysis of winter extratropical cyclone, 2764